

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT SECRETARY

September 26, 2002

Addendum No. 3

RE: State Project: 6.549008T, 6.569006T, 6.569007T

Lee-Moore Counties (R-210C, R-210A, R-210B) US-1 From South of SR-1853 and SR-2175, North of Lakeview to SR-1180 South of Sanford.

SEPTEMBER 30, 2002 Special Letting

To Whom It May Concern:

Reference is made to the proposal and structure plans recently furnished to you on the above project.

The advertisement period for the above project has been extended from the September 24, 2002 Special Letting to the **September 30, 2002 Special Letting.**

Sealed bids for the construction of this project will be opened and read in the Large Design Services Conference Room, Century Center Complex, Building B, 1020 Birch Ridge Drive, Raleigh, NC, (Enter Door B2) at 2:00 PM on the 30th day of September 2002. No bids will be received after 2:00 PM. Bids submitted on the same day they are to be opened shall be delivered to the office of the Contract Officer, Mr. Randy Garris or to the Design Services Conference Room (Enter Door B2.)

The following revisions have been made to the proposal form:

On the cover sheet, please draw a single line thru the "24" (date of bid opening) and insert "30" and initial same in ink. Also draw a single line thru 10:00 AM (time of bid opening) and insert 2:00 PM and initial same in ink (Sample Attached).

On page no.7, the project special provision entitled "On Line Electronic Bidding" has been revised to require the proposal form to be **received prior to bid opening**. Please void page no. 7 in your proposal form and staple the revised page no.7 thereto.

On page no. 9 the provision entitled "Minority and Women Business" has been revised to state that if information must be submitted to support a good faith effort by either of the two lowest bidders it must be received in the office of the State Contractual Services Engineer no later than 12:00 Noon October 1, 2002. Please void page no.9 in your proposal form and staple the revised page no.9 thereto.

On page no.29 the project special provision entitled "Restrictions on Construction of Embankment" has been revised to reduce the waiting period at two bridge locations. Please void page no. 29 in your proposal and staple the revised page no. 29 thereto.

On page no. 205 the first paragraph of the project special provision entitled "Permits" has been revised and a new paragraph concerning "Hazardous Spill Basins" has been added. Please void page no. 205 in your proposal and staple the revised page no. 205 thereto.

New page nos. 206 thru 345 are being added. Please staple new page nos. 206 thru 345 after revised page no. 205 in your proposal.

The Table of Contents has been revised to reflect the above noted changes. Please void the first page of the Table of Contents and staple the revised page thereto.

The following revisions have been made to the structure plans:

Sheet nos. S-372, S-373, S-401 and S-402 have been revised to correct girder strand locations. Sheets nos. S-297, S-298, S-299, S-332, S-333 and S-334 have been revised to remove deck drains from Span B. Please void sheet nos.S-297, S-298, S-299, S-332, S-333, S-334, S-372, S-373, S-401 and S-402 in your plans and staple the revised sheet nos. S-297, S-298, S-299, S-332, S-333, S-334, S-372, S-373, S-401 and S-402 thereto.

We are sending new diskettes to those bidders who requested diskettes when ordering proposal for the above referenced project. For this project <u>only</u>, please <u>do not</u> use the diskette furnished for the September 24, 2002 Special Letting but instead use the diskette for the September 30, 2002 Special Letting dated 9/26/02.

Sincerely,

R. A. Garris, P.E. Contract Officer

RAG/jag/pa (Attachments)

cc: Mr. J. D. Goins, P.E.

Mr. S. D. DeWitt, P.E.

Mr. W. F. Rosser, P.E

Ms. D. M. Barbour, P.E

Mr. J. V. Barbour, P.E.

Mr. G. R. Perfetti, P.E.

Mr. Mark Staley (2)

Mr. Aydren Flowers

Mr. R. E. Davenport, Jr., P.E.

Ms. Kim Canady

Ms. Yang Steelman

Project File (2)



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH, N.C.

ENT OF TRANSPORTATION RALEIGH, N.C.

PROPOSAL

	VOID	FOR BIDDING		
DATE AND TIME O	F BID OPENING: SEPTE	JAG 30 JAG 24 EMBER 17, 2002	JAG 2:00 PM AT -10:00AM	
CONTRACT ID	C200428			
WORK ORDER NO.	6.549008T, 6.569006T, 6.56900	7T		
FEDERAL-AID NO.	STATE FUNDED			
COUNTY	LEE, MOORE			
T.I.P. NO.	R-210C, R-210A, R-210B			
KILOMETERS	20.482			
ROUTE NO.	US 1			
LOCATION	US-1 FROM SOUTH OF SR-18 SR-1180 SOUTH OF SANFORD	853 & SR-2175, NORTH OF L D.	AKEVIEW, TO	
TYPE OF WORK	GRADING, DRAINAGE, PAVI	ING & STRUCTURES.		
NOTICE:				
GENERAL STATUES OF NORTH C. ON ANY NON-FEDERAL AID PROJ BIDDERS SHALL ALSO COMPLY V	ITH ALL APPLICABLE LAWS REGULATING THE PRA- AROLINA WHICH REQUIRES THE BIDDER TO BE LICH ECT WHERE THE BID IS \$30,000 OR MORE, EXCEPT F WITH ALL OTHER APPLICABLE LAWS REGULATING RING AS CONTAINED IN CHAPTER 87 OF THE GENER	ENSED BY THE N.C. LICENSING BOARD FOR COI FOR CERTAIN SPECAILITY WORK AS DETERMIN THE PRACTICES OF ELECTRICAL, PLUMBING, H	NTRACTORS WHEN BIDDING ED BY THE LICENSING BOARD.	
BIDS WILL BE RECEIVE	D AS SHOWN BELOW:	s		
THIS IS A ROADWAY & STRUCTURE PROPOSAL				
5% BID BOND OR BID DEPOSIT REQUIRED				

6.549008T, ETC. Lee-Moore Counties

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Project 6.549008T, 6.569006T, 6.569007T (R-210A, R-210B, R-210C)

Lee Moore Counties

Contractor name clearly labeled, to be received **prior to bid opening**.

All deliveries other than hand delivery shall be by overnight carrier to the following address:

Physical Address:

State Contract Officer Design Services Unit Century Center Bldg. B 1020 Birch Ridge Drive Raleigh, NC 27610

6. The Department is not responsible if a Bidder cannot submit its bid to Bid ExpressTM. Claims will not be accepted for this. In the event of technical difficulties, the Department reserves the right to postpone the reading of bids for up to four (4) hours past the advertised bid opening time.

SP1G60

MINORITY AND WOMEN BUSINESS:

7-17-01

POLICY

It is the policy of the North Carolina Department of Transportation that minority and women businesses shall have the maximum opportunity to participate in the performance of contracts financed by Non-Federal Funds.

OBLIGATION

The Contractor and any subsequent Subcontractor shall ensure that minority and women businesses have the maximum opportunity to participate in the performance of the work included in this contract. The Contractor and any subsequent Subcontractor shall take all necessary and reasonable steps to ensure that minority and women businesses have the maximum opportunity to compete for and perform a portion of the work included in this contract and shall not discriminate on the basis of race, color, national origin or sex. Failure on the part of the Contractor to carry out the requirements set forth herein shall constitute a breach of contract and after proper notification, may result in award disqualification, termination of the contract, disqualification from bidding, or other appropriate remedy.

GOALS

Pursuant to the requirements of North Carolina General Statute 136-28.4, the following goals for participation are established for this contract:

Minority Business Enterprises 10%
Women Business Enterprises 3%

The Contractor shall exercise all necessary and reasonable steps to ensure that Minority Businesses (MB) and Women Businesses (WB) participate in at least the percents of the contract as set forth above as goals for this contract.

Project 6.549008T, 6.569006T, 6.569007T (R-210A, R-210B, R-210C)

Lee Moore Counties

Failure to indicate the required information on the specified form will cause the bid to be considered nonresponsive and it may be rejected.

The Department will not allow any substitutions, deletions, or other alterations to the listing of firms committed for MB and WB participation and/or the respective listed contract item numbers after opening of bids. The Department will not allow adjustments to total dollar amount of MB and/or WB participation after the opening of bids which would result in the MB and/or WB participation being less than the contract goal. The only exceptions to the requirements of this paragraph will be: (1) to allow for replacement of a MB or WB firm that had been decertified after opening of bids, and (2) to allow alteration of the listed contract item numbers subject to the Bidder submitting sufficient documentation to verify an obvious error in the initial submittal.

B. If the bid of the lowest responsive bidder exceeds \$500,000 and if the MB and/or WB participation submitted in response to Paragraph A exceeds the algebraic sum of the MB and WB goals by \$1000 or more, the excess will be placed on deposit by the Department for future use by the bidder. Separate accounts will be maintained for MB and WB participation and these may accumulate for a period not to exceed 24 months.

If the MB and WB participation submitted in response to Paragraph A does not meet or exceed the MB and WB contract goals, the apparent two lowest responsive bidders must submit information to satisfy the North Carolina Department of Transportation that sufficient reasonable efforts have been made to meet the contract goals. One complete set and nine (9) copies of this information must be received in the office of the State Contractual Services Engineer no later than 12:00 NOON October 1, 2002. Where the information submitted includes repetitious solicitation letters it will be acceptable to submit a sample representative letter along with a distribution list of the firms being solicited. Documentation of MB and WB quotations shall be a part of the good faith effort submittal as necessary to demonstrate compliance with the factors listed below which the Department considers in judging good faith efforts. This documentation may include written subcontractor quotations, telephone log notations of verbal quotations, or other types of quotation documentation.

Where the bidder fails to provide this information by the deadline, the Department may impose the following sanctions: (1) disqualify the contractor and any affiliated companies from further bidding for a period of time of no more than 90 days from the date of disqualification as established in notification by certified mail; and (2) disqualify the Contractor and any affiliated companies for award of all contracts for which bids have been received and opened.

The following factors are what the Department will consider in judging whether or not the bidder has made adequate good faith effort:

(1) Whether the bidder attended any pre-bid meetings that were scheduled by the Department to inform MBs and WBs of subcontracting opportunities;

Kevised 9-26-02

Project 6.549008T, 6.569006T, 6.569007T (R-210A, R-210B, R-210C)

Lee Moore Counties

Material generated from undercut excavation, unclassified excavation or clearing and grubbing operations that is placed directly on shoulders or slope areas, will not be measured separately for payment, as payment for the work requiring the excavation will be considered adequate compensation for depositing and grading the material on the shoulders or slopes.

When undercut excavation is performed at the direction of the Engineer and the material excavated is found to be suitable for use as shoulder and fill slope material, and there is no area on the project currently prepared to receive the material generated by the undercut operation, the Contractor may construct a stockpile for use as borrow at a later date. Payment for the material used from the stockpile will be made at the contract unit price for "Borrow Excavation" or "Shoulder Borrow".

When shoulder material is obtained from borrow sources or from stockpiled material, payment for the work of shoulder construction will be made at the contract unit price per cubic yard (cubic meter) for "Borrow Excavation" or "Shoulder Borrow" in accordance with the applicable provisions of Section 230 or Section 560 of the Standard Specifications.

SP2R50

7-1-95

RESTRICTIONS ON CONSTRUCTION OF EMBANKMENT:

For Project R-210A, construct the embankments for the structures to the finished graded roadway section and do not begin any work on all bridge end bents as listed below:

One-month (1) waiting period for bridges on all end bents at Station 25+20 –L-Left and Right Lane Bridges

One-month (1) waiting period for bridge on all end bents at Station 81+03 –L-Left Lane

One-month (1) waiting period for bridge on all end bents at Station 80+85 –L-Right Lane Bridge

One-month (1) waiting period for bridges on all end bents at Station 13+88 -Y4-, 14+30 -Y3- and 12+49 -Y2-

The Contractor will be required to maintain the embankments at finished graded roadway section during the waiting period. Additional earth material required to maintain embankment of finished graded roadway section will be paid for at the contract unit price per cubic yard (cubic meter) for "Borrow Excavation" or "Unclassified Excavation" as the case may be.

SP2R65

RESTRICTIONS ON CONSTRUCTION OF EMBANKMENT: 7-1-95

For Projects R-210B & C, construct the embankments for the structures to the finished graded roadway section and do not begin any work on all bridge end bents as listed below:

Revised 9-26-02
October 18, 1995

PROJECT SPECIAL PROVISIONS PERMITS

The Contractor's attention is directed to the following permits which have been issued to the Department of Transportation by the authority granting the permit.

PERMIT

AUTHORITY GRANTING THE PERMIT

Dredge and Fill and/or Work in Navigable Waters U. S. Army Corps of Engineers

Water Quality

Division of Environmental Management, DEHNR

State of North Carolina

The Contractor shall comply with all applicable permit conditions during construction of this project. Those conditions marked by * are the responsibility of the department and the Contractor has no responsibility in accomplishing those conditions.

Agents of the permitting authority will periodically inspect the project for adherence to the permits.

The Contractor's attention is also directed to Articles 107-10 and 107-14 of the Standard Specifications and the following:

Should the Contractor propose to utilize construction methods (such as temporary structures or fill in waters and/or wetlands for haul roads, work platforms, cofferdams, etc.) not specifically identified in the permit (individual, general, or nationwide) authorizing the project it shall be the Contractor's responsibility to coordinate with the appropriate permit agency to determine what, if any, additional permit action is required. The Contractor shall also be responsible for initiating the request for the authorization of such construction method by the permitting agency. The request shall be submitted through the Engineer. The Contractor shall not utilize the construction method until it is approved by the permitting agency. The request normally takes approximately 60 days to process; however, no extensions of time or additional compensation will be granted for delays resulting from the Contractor's request for approval of construction methods not specifically identified in the permit.

Where construction moratoriums are contained in a permit condition which restricts the Contractor's activities to certain times of the year, those moratoriums will apply only to the portions of the work taking place in the waters or wetlands provided that activities outside those areas is done in such a manner as to not affect the waters or wetlands.

SPECIAL NOTICE CONCERNING HAZARDOUS SPILL BASINS:

The Contractor's attention is directed to the fact that Hazardous Spill Basins will be required at all stream crossings. Hazardous spill basins are not detailed on the plans and will be added by supplemental agreement in order to be in conformance with the permit requirements. Extensions of time will not be granted for the additional work of constructing the basins.

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DEPARTMENT OF THE ARMY PERMIT

NC Department of Transportation

Permittee_

Permit No	
CESAW-RG-L Issuing Office	
NOTE: The term "you" and its derivatives, a "this office" refers to the appropriate district of	is used in this permit, means the permittee or any future transferee. The term or division office of the Corps of Engineers having jurisdiction over the permitted acting under the authority of the commanding officer.
You are authorized to perform work in accordar	nce with the terms and conditions specified below.
Project Description:	
their tributaries impacting a total of 4,880 construction of 12.8 miles of U.S. 1, Trans	ttle River, Little Juniper Creek, Crane Creek and Little Crane Creek and D linear feet of streams and 41.5 acres of wetlands to facilitate the asportation Improvements Project (TIP) R-210, State Project Number ludes the installation of Fiber Optic Cable in the mainline road right-of-way
Project Location:	
In the Cape Fear River basin, from the ex	isting U.S. 1 four-lane facility south of Camp Easter Road (SR 1853) at g four-lane facility at Wild Life Road (SR 1180) south of Sanford in Lee
Permit Conditions:	
General Conditions:	
	thorized ends on <u>December 31, 2005</u> . If you find that you need submit your request for a time extension to this office for consideration at least
2. You must maintain the activity authorized	by this permit in good condition and in conformance with the terms and condi-

3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

tions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of

ENG FORM 1721, Nov 86

this permit from this office, which may require restoration of the area.

EDITION OF SEP 82 IS OBSOLETE.

(33 CFR 325 (Appendix A))

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- 4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
- 5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
- 6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Special Conditions:

See enclosed sheet.

Further Information:

- 1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:
 - () Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
 - (Section 404 of the Clean Water Act (33 U.S.C. 1344).
 - () Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).
- 2. Limits of this authorization.
 - a. This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.
 - b. This permit does not grant any property rights or exclusive privileges.
 - c. This permit does not authorize any injury to the property or rights of others.
 - d. This permit does not authorize interference with any existing or proposed Federal project.
- 3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:
- a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
- b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
- c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
 - d. Design or construction deficiencies associated with the permitted work.

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- e. Damage claims associated with any future modification, suspension, or revocation of this permit.
- 4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.
- 5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:
 - a. You fail to comply with the terms and conditions of this permit.
- b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).
 - c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

(DATE)

(DATE)

(DATE)

(DATE)

(DATE)

(DATE)

(DATE)

(DATE)

(DATE)

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

(TRANSFEREE) (DATE)



Alan W. Klimek, P.E. Director Division of Water Quality

July 19, 2002

Mr. William D. Gilmore, P.E., Manager NCDOT Planning and Environmental Branch 1548 Mail Service Center Raleigh, NC, 27699-1548

Dear Mr. Gilmore:

Re: Water Quality Certification Pursuant to §401 of the Federal Clean

Water Act, US 1 from north of Lakeview to south of Sanford

(Vass Bypass), Moore/Lee Counties

TIP No. R-210

DWQ Project No. 010404

Attached hereto is a copy of Certification No. 3344 issued to The North Carolina Department of Transportation dated July 19, 2002.

If we can be of further assistance, do not hesitate to contact us.

Sincerely,

Alan W. Klimek, P.E.

alan Pleinele

Attachments

cc: Richard Spencer, USACE Wilmington Field Office Ken Averitte, NCDWQ Fayetteville Regional Office Public Hearing Attendees Central Files File Copy



NORTH CAROLINA 401 WATER QUALITY CERTIFICATION

THIS CERTIFICATION is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Quality (DWQ) Regulations in 15 NCAC 2H, Section .0500. This certification authorizes the NCDOT to incur the following permanent impacts: 41.5 acres of jurisdictional wetlands through permanent fill, excavation, and mechanized clearing; 14.50 acres of surface waters (anthropogenically-created ponds) fill; and 4,880 linear feet of stream channels in Moore and Lee Counties, as described in the Application dated 19 February 2001, and additional information dated 12 February 2002 and 15 March 2002. The project shall be constructed pursuant to the application dated February 19 filed to construct improvements to US 1 from north of Lakeview to south of Sanford (Vass Bypass, TIP Project No. R-210).

The application provides adequate assurance that the discharge of fill material into the waters of the state with the proposed development will not result in a violation of applicable Water Quality Standards and discharge guidelines. Therefore, the State of North Carolina certifies that this activity will not violate the applicable portions of Sections 301, 302, 303, 306, 307 of PL 92-500 and PL 95-217 if conducted in accordance with the application and conditions hereinafter set forth.

This approval is only valid for the purpose and design that you submitted in your application. Should your project change, you are required to notify the DWQ in writing, and you may be required to submit a new application. If the property is sold, the new owner must be given a copy of this Certification and approval letter, and is thereby responsible for complying with all the conditions. If this project incurs additional wetland or stream impacts, additional compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7). For this approval to remain valid, you are required to comply with all the conditions listed below. In addition, you should obtain all other federal, state or local permits before proceeding with your project including (but not limited to) Sediment and Erosion Control, Non-discharge and Water Supply watershed regulations. This Certification shall expire three (3) years from the date of the cover letter from DWQ or on the same day as the expiration date of the corresponding Corps of Engineers Permit, whichever is sooner.

Condition(s) of Certification:

- 1. The applicant must follow the appropriate sediment and erosion control practices which equal or exceed those outlined in the most recent version of the North Carolina Sediment and Erosion Control Planning and Design Manual or the North Carolina Surface Mining Manual, whichever is more appropriate (available from the Division of Land Resources (DLR) in the DENR Regional or Central Offices) and shall be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to assure compliance with the appropriate turbidity water quality standard (50 NTUs in all fresh water streams and rivers not designated as trout waters; 25 NTUs in all lakes and reservoirs, and all saltwater classes; and 10 NTUs in trout waters);
- 2. NCDOT shall use Best Management Practices for the Protection of Surface Waters (NCDOT March 1997), specifically using all applicable preventive and control measures during the design, construction and maintenance of this project. These measures shall be implemented prior to any ground-disturbing activities to minimize impacts to downstream aquatic resources.

- 3. During the construction of the project, the applicant shall strictly adhere to North Carolina regulations entitled, *Design Standards in Sensitive Watersheds* [15A NCAC 4B .0124(a)-(d)], within the entire project corridor.
- 4. Storm water shall be directed to buffer areas or retention basins and shall not be routed directly into streams. Existing vegetated buffers shall not be mowed in order to utilize it for storm water diffuse flow.
- 5. Temporary or permanent herbaceous vegetation shall be planted on all bare soil within 10 days of ground-disturbing activities (due to the presence of High Quality Waters) to provide long term erosion control.
- 6. NCDOT shall adhere to the requirements for High Quality Waters [15A NCAC 2B .0224].
- 7. Hazardous Spill Catch Basins shall be required for all stream crossings. The final designs for the Hazardous Spill Catch Basins shall be submitted to the North Carolina Division of Water Quality 401 Wetlands Unit prior to beginning construction in the Water Supply watershed. As-built drawings for the basins shall be submitted to the North Carolina Division of Water Quality 401 Wetlands Units no later than 30 days after the construction is completed.
- 8. The bridge(s) required for this project shall be designed according to Best Management Practices for the Protection of Surface Waters (NCDOT March 1997). Specifically, the bridge decking shall not discharge storm water directly into the receiving water.
- 9. Prior to any construction activities, the NCDOT shall submit a maintenance plan for all storm water management facilities and hazardous spill catch basins associated with the project. The NCDOT shall be required to implement the maintenance plan for the life of this road. Sediment and erosion control devices shall not be placed in wetlands or waters to the maximum extent practicable. If placement of sediment and erosion control devices in wetlands and waters is unavoidable, they shall be removed and the natural grade restored after the Division of Land Resources has released the project.
- 10. Any bridge demolition work required by this project shall adhere to NCDOT's Best Management Practices for Bridge Demolition and Removal.
- 11. Live or fresh concrete shall not come into contact with waters of the state until the concrete has hardened.
- 12. There shall be no excavation from or waste disposal into jurisdictional wetlands or waters associated with this permit without appropriate modification of this Certification. If this occurs, compensatory mitigation will be required since it is a direct impact from road construction activities.
- 13. Placement of culverts and other structures in waters, streams, and wetlands shall be placed below the elevation of the streambed to allow low flow passage of water and aquatic life unless it can be shown to DWQ that providing passage would be impractical. Design and placement of culverts and other structures including temporary erosion control measures shall not be conducted in a manner that may result in dis-equilibrium of wetlands or stream beds or banks, adjacent to or upstream and down stream of the above structures. The applicant is required to provide evidence that the equilibrium shall be maintained if requested in writing by DWQ.
- *14. NCDOT shall mitigate for the loss of two water supply wells for the Town of Cameron by constructing a municipal supply well or wells capable of yielding a minimum of 70 gallons per

- minute (gpm). The Utility Relocation Agreement was entered with the Town of Cameron on October 26, 1998.
- 15. Mitigation: Compensatory mitigation shall be the same as that approved by the US Army Corps of Engineers as long as the mitigation required equals a ratio of 1:1 restoration or creation of lost wetland acres as described in 15A NCAC 2H.0506 (h)(6). A report must be submitted to the NC Division of Water Quality that describes the final approved wetland and stream mitigation for this project within two (2) months of the issuance of the 404 permit issued by the Army Corps of Engineers.
 - a. Wetland impacts of 41.5 acres include riverine wetlands. NCDOT will mitigate these impacts by providing the following:
 - 4.8 acres of on-site restoration (1:1 ratio) in the floodplain of the Little River as described in Appendix C of the Application.

 The monitoring plan shall be followed and reports shall be submitted to this Office after the first year and every other year afterwards for a total of five (5) years.
 - 8.4 acres of on-site preservation as described in Appendix C of the Application.
 - Sandhills Area Land Trust (SALT) Mitigation Site (a 327-acre site in Moore County) being offered in total to offset the remainder of wetland impacts (36.8 acres) associated with the project. This site includes a maximum of 49 acres of wetland restoration.
 - NCDOT shall place groundwater gauges on the site such that they will accurately measure the drainage effect of the existing ditches at the SALT site. Before the additional monitoring and re-modeling of the groundwater table of the SALT Site occurs, NCDOT shall meet with DWQ personnel to agree upon the details of additional studies. If the resulting hydrological modeling demonstrates that less than 36.8 acres can actually be restored, NCDOT shall obtain wetland mitigation through in-lieu payments to Wetlands Restoration Program (WRP).
 - b. Stream impacts total 4,880 linear feet in the Cape Fear River Basin (Hydrologic Unit 03030004). NCDOT proposes to provide compensatory mitigation at a 2:1 ratio except where on-site mitigation will be provided. The on-site mitigation sites will be mitigated at a 1:1 ratio as detailed in Table 4, Appendix A of the February 19, 2001 Application. Compensatory mitigation consists of the following:
 - 1,154 linear feet of on-site stream relocation/restoration, with 50-foot buffers, using natural channel design. The natural channel design specifications shall be calculated from field measurements of an unimpacted section of stream (reference reach). The plans must include reference reach data including a sketch map, the range of values (pattern data), and all calculations (including the determination of bankfull). The channel design should include a floodplain terrace at stream bankfull.

The stream relocation shall be built and maintained according to approved plans before any mitigation credit is given. If this Office determines that the stream restoration or associated riparian area has become unstable, the stream shall be repaired or stabilized using only natural channel design techniques if possible. Additionally, the vegetation in the riparian shall be maintained and/or replaced according to the approved plans. Rip-rap and other hard structures may *only* be used if required by the Division of Land Resources or a Delegated Local Program. Additionally, all repair designs must be submitted to and receive written approval from this Office before the repair work is performed.

Since the restored stream is proposed as compensatory mitigation for stream impacts, the restored portion and associated riparian area shall be preserved in perpetuity through a preservation easement or some other legally binding mechanism or agreement. The above easement or other legally binding mechanism or agreement must be in place before any mitigation credit shall be given. Additionally, the stream physical and biological monitoring plan shall be followed and reports shall be submitted to this Office after the first year and every other year afterwards for a total of five (5) years.

• The remaining 8,068 linear feet of stream mitigation shall be provided via in-lieu payments to Wetlands Restoration Program as agreed on April 1, 1999.

In accordance with 15A NCAC 2R.0500, this contribution will satisfy our compensatory mitigation requirements under 15A NCAC 2H.0506(h). Until plans are received and approved for the stream relocation using natural channel design, wetland or stream fill shall not occur.

- ↓16. Upon completion of the project, the NCDOT shall complete and return the enclosed "Certification of Completion Form" to notify DWQ when all work included in the 401 Certification has been completed. The responsible party shall complete the attached form and return it to the 401/Wetlands Unit of the Division of Water Quality upon completion of the project.
- 17. The Applicant shall require its contractors (and/or agents) to comply with all of the terms of this Certification, and shall provide each of its contractors (and/or agents) a copy of this Certification.

Violations of any condition herein set forth shall result in revocation of this Certification and may result in criminal and/or civil penalties. This Certification shall become null and void unless the above conditions are made conditions of the Federal Permit.

If you do not accept any of the conditions of this certification, you may ask for an adjudicatory hearing. You must act within 60 days of the date that you receive this letter. To ask for a hearing, send a written petition that conforms to Chapter 150B of the North Carolina General Statutes to the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, N.C. 27699-6714. This certification and its conditions are final and binding unless you ask for a hearing.

This the 19th day of July 2002

DIVISION OF WATER QUALITY

Man Kleinek

Alan W. Klimek, P.E.

SPECIAL CONDITIONS (Action ID. 1993-0-0570; NCDOT/TIP R-210)

- 1. All work authorized by this permit must be prepared in strict compliance with the attached plans, which are a part of this permit.
 - 2. Stream Relocation Requirements:
- a. The permittee will relocate 1154 linear feet of stream at the following locations:
- i. The permittee shall mitigate for 174 linear feet of unavoidable impacts to an unnamed tributary to the Little River (Section A, Impact Site #10), an important stream channel, by completing 174 linear feet of onsite stream relocation, as described in the permit application
- ii. The permittee shall mitigate for 980 linear feet of unavoidable impacts to an unnamed tributary to Little Crane Creek (Section C, Impact Site #4), an important stream channel, by completing 980 linear feet of onsite stream relocation, as described in the permit application.
 - b. The relocations will be performed subject to the following conditions.
- i. The stream relocation shall be constructed in accordance with the North Carolina Wildlife Resources Commission's (NCWRC) "Stream Relocation Guidelines", and with the attached permit drawings. NCDOT shall consult with NCWRC on all stream relocations and implement all practicable recommendations in the design of specific site requirements for re-establishment of bank vegetation, and placement of meanders and habitat structures. Vegetation shall be used to the maximum extent practicable to stabilize banks, and riprap and other man-made structural measures shall be minimized.
- ii. The permittee shall construct all channel relocations in a dry work area. The permittee shall stabilize the relocated channel before stream flows are directed into the new channel. Stream flows shall not be released into the new channel until approved by the Corps of Engineers, Wilmington District. Whenever possible, channel relocations shall be allowed to stabilize for an entire growing season. Upon completion of the project, an as-built channel survey shall be conducted. It is recommended that stream surveys, for both project construction and project monitoring, follow the methodology contained in the USDA Forest Service Manual, *Stream Channel Reference Sites* (Harrelson, et.al, 1994). The survey shall document the dimension, pattern and profile of the relocated channel.
- iii. The permittee shall identify a stable reference reach that is close to the proposed relocation site and will not be impacted by the proposed highway construction. The applicant will coordinate a field meeting with the Corps of Engineers

to approve the reference reach selection prior to channel design and relocation of the existing stream. Baseline data on the reference reach channel dimension, pattern, and profile shall be collected and used as a blueprint for the relocation channel design. A detailed design plan of the relocation stream shall be submitted to this office for review prior to construction, including clearing activities.

- iv. Vegetation used to stabilize banks shall be limited to native woody species, and will include establishment of a 50 foot wide vegetated buffer on the relocated channel. Stream banks will be planted with native vegetation that represents both woody (trees and shrubs) and herbaceous species. Species selection will be based on a survey of the vegetation from the approved reference reach. Survival of woody species planted at the stream mitigation sites must be at least 320 trees/acre through year three. A ten percent mortality rate will be accepted in year four (288 trees/acre) and another ten percent in year five, resulting in a required survival rate of 260 trees/acre through year five.
- v. The permittee shall monitor the stream relocation site for a period of five years starting the year following construction. Monitoring data at the site should include the following: reference photos, plant survival and channel stability. Data shall be collected each year for 5 years at the same time of year. No less than two (2) bankfull flow events must be documented through the required 5-year monitoring period. If less than 2 bankfull events occur during the first 5 years, monitoring will continue until the second bankfull event is documented. The bankfull events must occur during separate monitoring years.
- vi. If within any monitoring year, bank or stream stability is not acceptable as determined by the Corps of Engineers, and remedial action required by the Corps of Engineers is performed, the five-year monitoring period of the affected portions of the stream will start again at monitor year one. The permittee will coordinate all remedial activities with the Corps of Engineers, Wilmington District, prior to taking any remedial action. The permittee will submit a brief written report with representative photographs within 90 days after the monitoring year is completed.
- vii. The permittee shall provide the Corps of Engineers, Wilmington District with a stream mitigation construction sequencing schedule within 30 days following the project preconstruction meeting. The plan, shall at a minimum, indicate a date of start of construction at the relocation site, grading schedule, planting schedule, completion of construction, monitoring schedule, and a date of potential diversion into the new channel. All stream mitigation construction must be completed within one year from the date of issuance of this permit.
- viii. The permittee and/or current and subsequent property owners shall maintain the mitigation site in its natural condition, as altered by work in the mitigation plan, in perpetuity. Prohibited activities within the mitigation site specifically include, but are not limited to: the construction or placement of roads, walkways, buildings, signs, or structures of any kind (i.e., billboards, interior fences, etc.); filling, grading,

excavation, leveling, or any other earth moving activity or activity that may alter the drainage patterns on the property; the cutting, mowing, destruction, removal, or other damage of any vegetation; disposal or storage of any debris, trash, garbage, or other waste material; except as may be authorized by the mitigation plans, or subsequent modifications that are approved by the Corps of Engineers. In addition, the permittee shall take no action, whether on or off the mitigation property, which will adversely impact the wetlands or streams on the mitigation property, except as specifically authorized by this permit, or subsequent modifications that are approved by the Corps of Engineers, Wilmington District.

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- ix. Condition 2.b.viii, above, runs with the land. The permittee shall not sell, lease, or otherwise convey any interest in the mitigation property without subjecting the property to legally enforceable restrictions on the use of the property, to ensure its preservation in perpetuity. The instrument utilized to meet this condition must be approved in writing by the Wilmington District Corps of Engineers before execution.
- 3. The permittee shall mitigate for 3726 linear feet of unavoidable impacts to important stream channel associated with this project by payment to the North Carolina Wetlands Restoration Program (NCWRP) in an amount determined by the NCWRP sufficient to perform 7452 linear feet of warm water stream mitigation, or the equivalent water quality improvement projects, as approved by the Corps of Engineers, in the Cape Fear River basin (Cataloging Unit 03030004). Construction within streams on the permitted highway project shall begin only after the permittee has made full payment to the NCWRP, and the NCWRP has made written confirmation to the District Engineer, that it agrees to accept responsibility for the mitigation work required, pursuant to Paragraph IV.D. of the Memorandum of Understanding between the North Carolina Department of Environment and Natural Resources and the U.S. Army Corps of Engineers, Wilmington District, dated November 4, 1998.
- 4. The permittee shall mitigate for 4.7 acres of unavoidable impacts to High Quality riverine wetlands at the Little River (Section A, Impact Site #1) by providing 4.7 acres of on-site restoration and 8.4 acres of on-site preservation as identified in the Little River On-site Restoration Plan, dated February 2001. In addition, the following stipulations shall apply to this mitigation site:
- a. The permittee shall identify a reference site that is adjacent to the proposed restoration site and will not be impacted by the proposed highway construction. The applicant will coordinate a field meeting with the Corps of Engineers to approve the reference site selection prior to mitigation design and restoration of the mitigation site. Baseline data on the reference site hydrology, surface elevations, and vegetation shall be collected and used as a blueprint for the wetland restoration design. A detailed design plan of the wetland restoration shall be submitted to this office for review prior to construction, including clearing activities, at this site (Section A, Impact Site #1).

- b. To meet the success criteria, the monitoring data must show that for each normal precipitation year within the monitoring period, the site exhibits saturation within the upper 12 inches of the soil surface for a minimum of 12.5% or 29 days, or greater consecutive day duration during the growing season and inundation must occur 5 out of 10 years or 50% of the years monitored, at a minimum frequency. Baseline hydrologic data shall be obtained from the reference site, which can be used to support the mitigation site's hydrology success. WETS tables for Moore County will be utilized as appropriate to determine normal precipitation years.
- c. If there are no normal precipitation years during the first five years of monitoring, to meet performance criteria, the permittee will continue to monitor hydrology on the site until it shows that the site has been inundated or saturated as described above during a normal precipitation year.
- d. The mitigation site shall be suitably graded to promote the establishment of planted wetland vegetation, generally to the adjacent wetland reference site elevations. If mineral soil is exposed at the desired restoration grade, the site should be graded to at least minus one-foot and brought back to grade by providing at least one foot of wetland topsoil. If organic soil is exposed at the desired restoration grade, the soil should be disked or suitability prepared for planting. Every effort must be made to utilize the topsoil from the impacted wetlands on this project to promote wetland re-vegetation.
- e. The mitigation site will be planted with native vegetation that represents both woody (trees and shrubs) and herbaceous species. Species selection will be based on a survey of the vegetation from the approved reference site. Survival of woody species planted at the mitigation site must be at least 320 trees/acre through year three. A ten percent mortality rate will be accepted in year four (288 trees/acre) and another ten percent in year five resulting in a required survival rate of 260 trees/acre through year five.
- Vegetation monitoring must begin in the spring just after leaf-out. Permanent randomly located sample plots shall be established at the mitigation site. Plot size should be based on established standards for sampling vegetation planted at the target densities, usually 0.1 acre. The number of plots shall be established by providing combined sample coverage of 2% of the mitigation site, or for small sites less than 15 acres in size, a minimum of three plots shall be established. The planted tree stock shall be marked by use of tree marking paint and/or tree tags for identification and sampling. Plants that have colonized the sample plot shall be identified and noted in the monitoring report but not used in the planted vegetation monitoring calculations. Plant recruitment shall be calculated as a separate item and corrective measures may need to be taken if the volunteers are undesirable or are jeopardizing the survival of the planted stock. The measurement of planted stock survival using stem density will be acceptable provided that only planted stock is counted. In addition, in order to measure health and vigor of the planted stock, height measurements of the plants in each plot shall be taken, compared and provided in the yearly monitoring report. General observations of lateral plant growth, leaf and bud development should also be annotated in the reports.

- g. Continually recording monitoring wells, surface gauges and/or piezometers shall be developed in the reference site and restoration site and be of sufficient numbers and adequately spaced to measure the extent, frequency and duration of the site inundation/saturation. This will aid in quickly identifying problem areas for remediation and determine the hydrologic success of the mitigation effort. The permittee must comply with USACE WRP Technical Note HY-IA3.1 for installation and development of the monitor wells and/or piezometers. Monitor wells shall be visited frequently to avoid lengthy down time of non-functioning wells and maintenance shall be scheduled in such a way as to minimize any down time for repairs or replacement. Lengthy down time of wells during the growing season may result in the extension of the monitoring period in order to fill in gaps in the data.
- h. The permittee and/or current and subsequent property owners shall maintain the mitigation site in its natural condition, as altered by work in the mitigation plan, in perpetuity. Prohibited activities within the mitigation site specifically include, but are not limited to: the construction or placement of roads, walkways, buildings, signs, or structures of any kind (i.e., billboards, interior fences, etc.); filling, grading, excavation, leveling, or any other earth moving activity or activity that may alter the drainage patterns on the property; the cutting, mowing, destruction, removal, or other damage of any vegetation; disposal or storage of any debris, trash, garbage, or other waste material; except as may be authorized by the mitigation plan, or subsequent modifications that are approved by the Corps of Engineers, Wilmington District. In addition, the permittee shall take no action, whether on or off the mitigation property, which will adversely impact the wetlands or streams on the mitigation property, except as specifically authorized by this permit, or subsequent modifications that are approved by the Corps of Engineers, Wilmington District.
- i. Condition 4.h., above, runs with the land. The permittee shall not sell, lease, or otherwise convey any interest in the mitigation property without subjecting the property to legally enforceable restrictions on the use of the property, to ensure its preservation in perpetuity. The instrument utilized to meet this condition must be approved in writing by the Wilmington District Corps of Engineers before execution.
- 5. The permittee shall mitigate for 36.8 acres of unavoidable impacts to riverine wetlands associated with this project by restoring, at a minimum, 36.8 acres of wetlands, preserving 176 acres of wetlands, and preserving 102 acres of uplands at the 327-acre Sandhills Area Land Trust (SALT) Mitigation Site as described in the report entitled "Wetland Mitigation Plan SALT Mitigation Site" dated August 16, 2000. In addition, the following stipulations shall apply to this mitigation site:
- a. To meet the success criteria, the monitoring data must show that for each normal precipitation year within the monitoring period, the site exhibits saturation within the upper 12 inches of the soil surface for a minimum of 12.5% or 29 days, or greater consecutive day duration during the growing season and inundation must occur 5 out of 10 years or 50% of the years monitored, at a minimum frequency. Baseline hydrologic

data shall be obtained from the reference site, which can be used to support the mitigation site's hydrology success. WETS tables for Moore County will be utilized as appropriate to determine normal precipitation years.

- b. The mitigation site will be planted with native vegetation that represents both woody (trees and shrubs) and herbaceous species. Species selection will be based on a survey of the vegetation from the reference sites. Survival of woody species planted at the mitigation site should be at least 320 trees/acre through year three. A ten percent mortality rate will be accepted in year four (288 trees/acre) and another ten percent in year five resulting in a required survival rate of 260 trees/acre through year five.
- Vegetation monitoring must begin in the spring just after leaf-out. c. Permanent randomly located sample plots shall be established at the mitigation site. Plot size shall be based on established standards for sampling vegetation planted at the target densities, usually 0.1 acre. The number of plots shall be established by use of statistical methods used to identify adequate sample size and, at a minimum, provide combined sample coverage of 2% of the mitigation site. The planted tree stock shall be marked by use of tree marking paint and/or tree tags for identification and sampling. Plants that have colonized the sample plot should be identified and noted in the monitoring report but not used in the planted vegetation monitoring calculations. Plant recruitment should be calculated as a separate item and corrective measures may need to be taken if the volunteers are undesirable or are jeopardizing the survival of the planted stock. The measurement of planted stock survival using stem density will be acceptable provided that only planted stock is counted. In addition, in order to measure health and vigor of the planted stock, height measurements of the plants in each plot shall be taken, compared and provided in the yearly monitoring report. General observations of lateral plant growth, leaf and bud development should also be annotated in the reports.
- d. Continually recording monitoring wells, surface gauges and/or piezometers shall be developed in the reference sites (four wells) and restoration site (eight wells) and be adequately spaced to measure the extent, frequency and duration of the site inundation/saturation. This will aid in quickly identifying problem areas for remediation and determine the hydrologic success of the mitigation effort. The permittee must comply with USACE WRP Technical Note HY-IA3.1 for installation and development of the monitor wells and/or piezometers. Monitor wells shall be visited frequently to avoid lengthy down time of non-functioning wells and maintenance shall be scheduled in such a way as to minimize any down time for repairs or replacement. Lengthy down time of wells during the growing season may result in the extension of the monitoring period in order to fill in gaps in the data.
- e. A detailed design plan of the wetland restoration site shall be submitted to this office for review prior to any construction, including clearing activities in the project's permitted areas.
- f. No improvements shall be initiated on the logging road that bisects the SALT Mitigation Site. This includes changing the existing grade, maintenance grading,

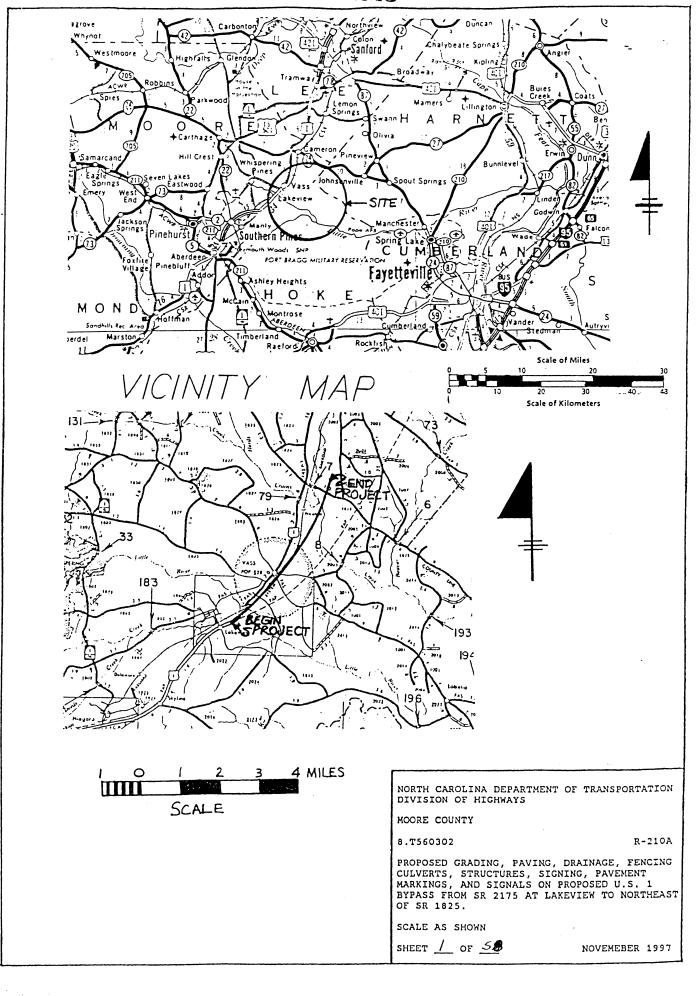
widening, and/or paving. Stabilization of the road embankments to prevent erosion shall be accomplished by re-vegetation measures only. No structural armoring shall be initiated.

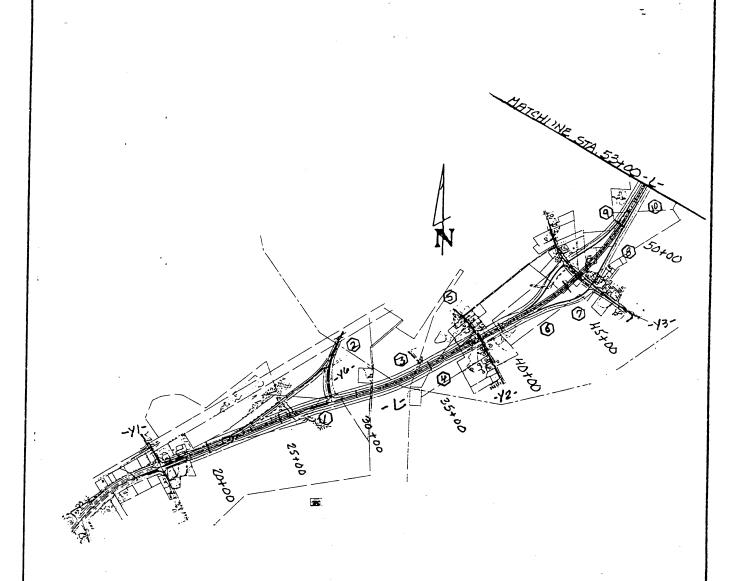
- g. Except as described in the mitigation plan, no activities shall be initiated, conducted or allowed on the SALT Mitigation Site that may disturb, impair, alter, and/or modify the hydrology, vegetation and/or hydric soils of any of the existing wetland areas, including any restored wetlands. Periodic controlled burning will be allowed provided no fire brakes are placed in any wetlands and the prescribed burn is in accordance with a NC Forest Service authorized burning plan.
- h. No amendments to the existing Conservation Easement dated July 13, 1998 and recorded in Deed Book 1400 at Page 329 shall be undertaken without prior written approval by the Corps of Engineers, Wilmington District.
- i. Permittee may not transfer its conservation easement in the SALT mitigation property without the prior approval of the Corps of Engineers.
- j. No trails or interpretive exhibits shall be constructed on the SALT Mitigation property subject to the Conservation Easement without the written approval of the Corps of Engineers, Wilmington District.
- k. The permittee shall enforce the terms of the conservation easement in the mitigation property recorded in Book 1400, Page 329 of the Moore County Registry.
- 6. When final design plans are completed for TIP R-210, any necessary permit modification requests shall be submitted to the Corps of Engineers and the North Carolina Division of Water Quality (NCDWQ). If necessary, a public notice describing the modifications and any additional impacts associated with the modifications will be circulated for public review and comment. Final design plans shall reflect all appropriate avoidance and minimization measures taken to lessen the project impacts on aquatic resources. The permittee shall submit a compensatory mitigation plan for proposed additional impacts within streams and wetlands associated with the proposed modifications. Construction within streams and wetlands on TIP R-210 shall begin only after approval by the Corps of Engineers of the modified impacts.
- 7. Prior to commencing construction within jurisdictional waters of the United States for any portion of the proposed highway project, the permittee shall forward the latest version of project construction drawings to the Corps of Engineers, Wilmington Regulatory Field Office NCDOT Regulatory Project Manager. Half-size drawings will be acceptable.
- 8. The permittee shall schedule a meeting between its representatives, the contractor's representatives, and the Corps of Engineers, Wilmington Regulatory Field Office NCDOT Regulatory Project Manager, prior to any work within jurisdictional waters and wetlands to ensure that there is a mutual understanding of all of the terms and

conditions contained within this Department of the Army Permit. The permittee shall notify the Corps of Engineers Project Manager a minimum of thirty (30) days in advance of the scheduled meetings in order to provide that individual with ample opportunity to schedule and participate in the required meetings.

- 9. The permittee and its contractors and/or agents shall not excavate, fill, or perform mechanized land clearing at any time in the construction or maintenance of this project within waters and/or wetlands, except as authorized by this permit, or any modification to this permit. There shall be no excavation from, or waste disposal into, jurisdictional wetlands or waters associated with this permit without appropriate modification of this permit, including appropriate compensatory mitigation. This prohibition applies to all borrow and fill activities connected with this project.
- 10. To ensure that all borrow and waste activities occur on high ground, except as authorized by this permit, the permittee shall require its contractors and/or agents to identify all areas to be used for borrow material, or to dispose of dredged, fill, or waste material. The permittee shall ensure that all such areas comply with the preceding condition (6) of this permit, and shall require and maintain documentation of the location and characteristics of all borrow and disposal sites associated with this project. This information will include data regarding soils, vegetation and hydrology sufficient to clearly demonstrate compliance with the preceding condition (6). All information will be available to the Corps of Engineers upon request.
- 11. The permittee shall comply with the conditions specified in the water quality certification, No. 3344, issued by the North Carolina Division of Water Quality on July 19, 2002.
- 12. In compliance with NHPA, Section 106, the permittee shall comply with all stipulations identified in the Memorandum of Agreement (MOA) between Federal Highway Administration, Advisory Council on Historic Preservation and the NC Historic Preservation Officer (SHPO) on this project.
- 13. The permittee shall place the inverts of culverts and other structures in waters, streams, and wetlands one foot below the elevation of the streambed to allow low flow passage of water and aquatic life, unless providing passage would be impractical and the Corps of Engineers has waived this requirement. Design and placement of culverts and other structures including temporary erosion control measures shall not be conducted in a manner that may result in dis-equilibrium of wetlands or streambeds or banks, adjacent to, upstream or downstream of the structures.
- 14. The permittee shall use appropriate sediment and erosion control practices which equal or exceed those outlined in the most recent version of the "North Carolina Sediment and Erosion Control Planning and Design Manual" to assure compliance with the appropriate turbidity water quality standard (50 NTU's in all streams and rivers, and 25 NTU's in all lakes).

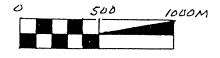
- 15. The permittee shall remove all sediment and erosion control measures placed in wetlands or waters, and shall restore natural grades in those areas, prior to project completion.
- 16. The permittee shall take measures to prevent live or fresh concrete from coming into contact with any surface waters until the concrete has hardened.
- 17. If the permittee discovers any previously unknown historic or archeological remains while accomplishing the authorized work, he shall immediately stop work and notify the Wilmington District Engineer who will initiate the required State/Federal coordination.
- 18. No excavated or fill material shall be placed at any time in waters or wetlands outside the authorized permit area, nor will it be placed in any location or in any manner so as to impair surface water flow into or out of any wetland area.
- 19. The permittee shall maintain the authorized work in good condition and in conformance with the terms and conditions of this permit. The permittee is not relieved of this requirement if he abandons the permitted activity without transferring it to a third party.
- 20. All fill material shall be clean and free of any pollutants except in trace quantities. Metal products, organic materials, or unsightly debris will not be used.
- 21. This Department of the Army permit does not obviate the need to obtain other Federal, State, or local authorizations required by law.
- 22. In issuing this permit, the Federal Government does not assume any liability for:
- a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
- b. Damages to the permitted project or uses thereof as a result of current or future Federal activities initiated on behalf of the general public.
- c. Damages to other permitted or un-permitted activities or structures caused by the authorized activity.
 - d. Design and construction deficiencies associated with the permitted work.
- e. Damage claims associated with any future modification, suspension, or revocation of this permit.





SITE MAP

SCALE



1:25,000

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

MOORE COUNTY

8.T560302

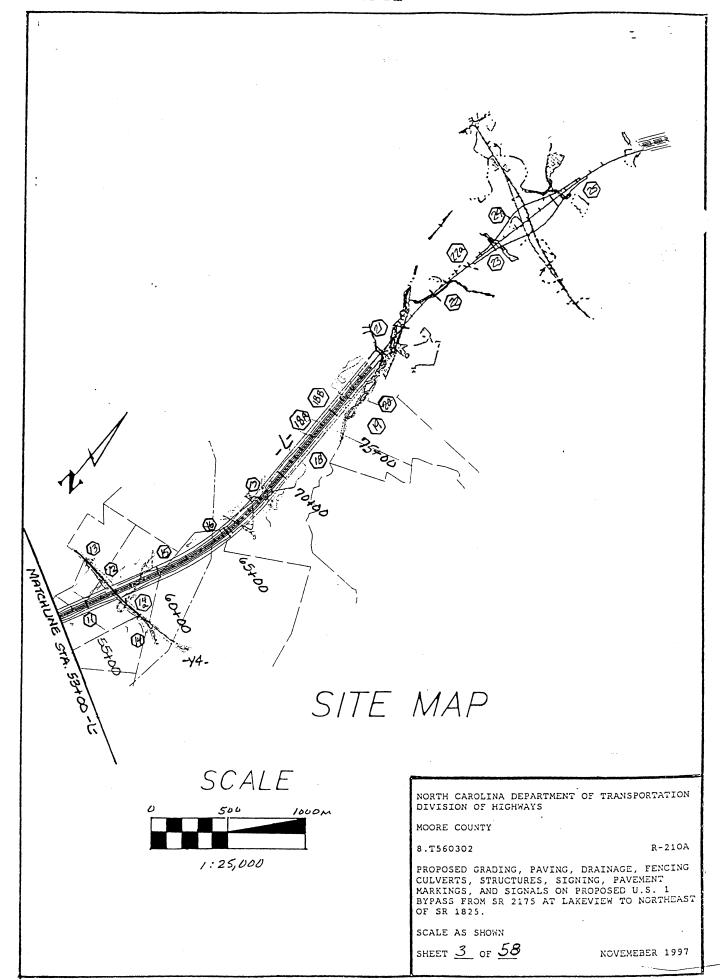
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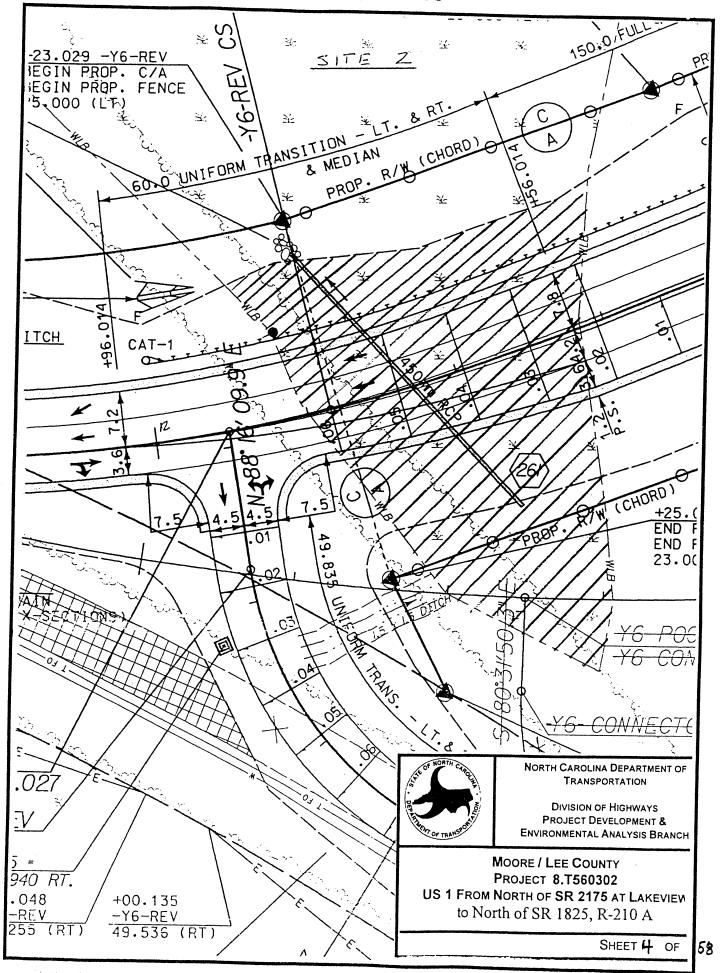
PROPOSED GRADING, PAVING, DRAINAGE, FENCING CULVERTS, STRUCTURES, SIGNING, PAVEMENT MARKINGS, AND SIGNALS ON PROPOSED U.S. 1 BYPASS FROM SR 2175 AT LAKEVIEW TO NORTHEAST OF SR 1825.

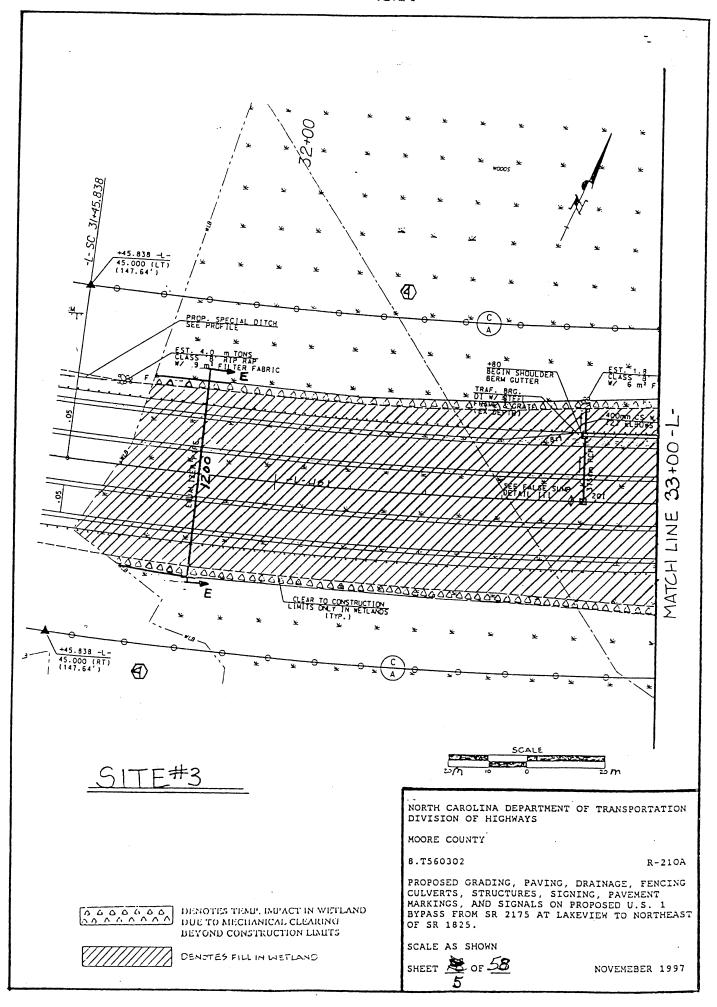
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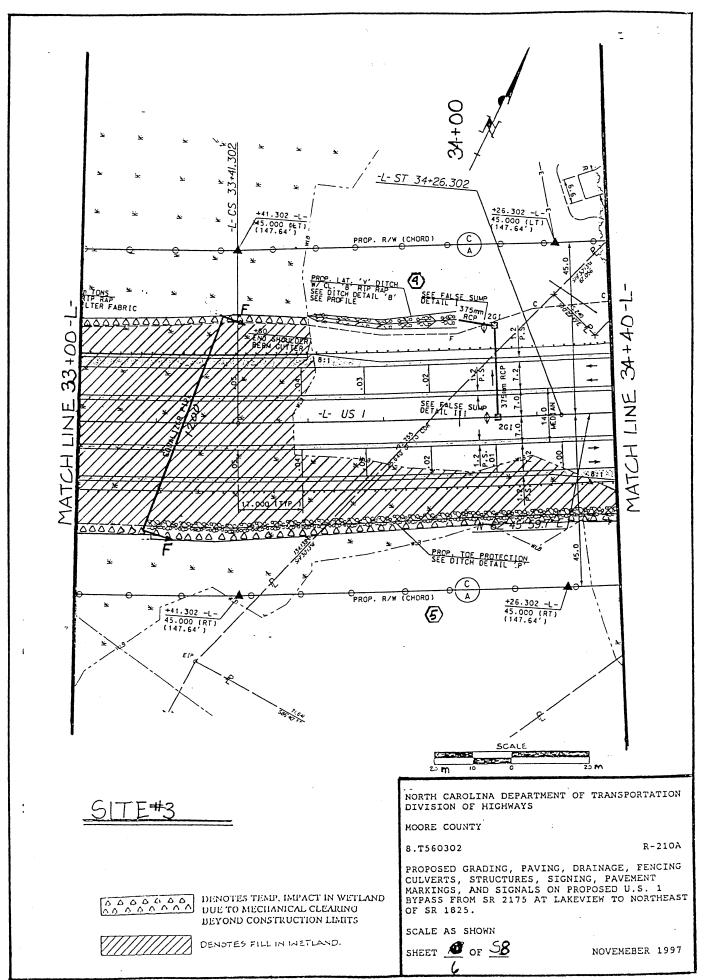
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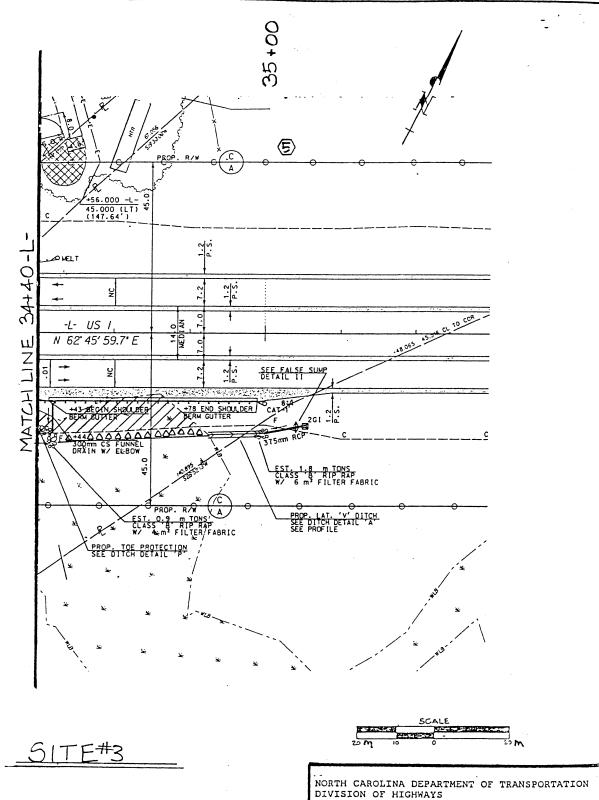
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MOORE COUNTY

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R-210A

PROPOSED GRADING, PAVING, DRAINAGE, FENCING CULVERTS, STRUCTURES, SIGNING, PAVEMENT MARKINGS, AND SIGNALS ON PROPOSED U.S. 1 BYPASS FROM SR 2175 AT LAKEVIEW TO NORTHEAST OF SR 1825.

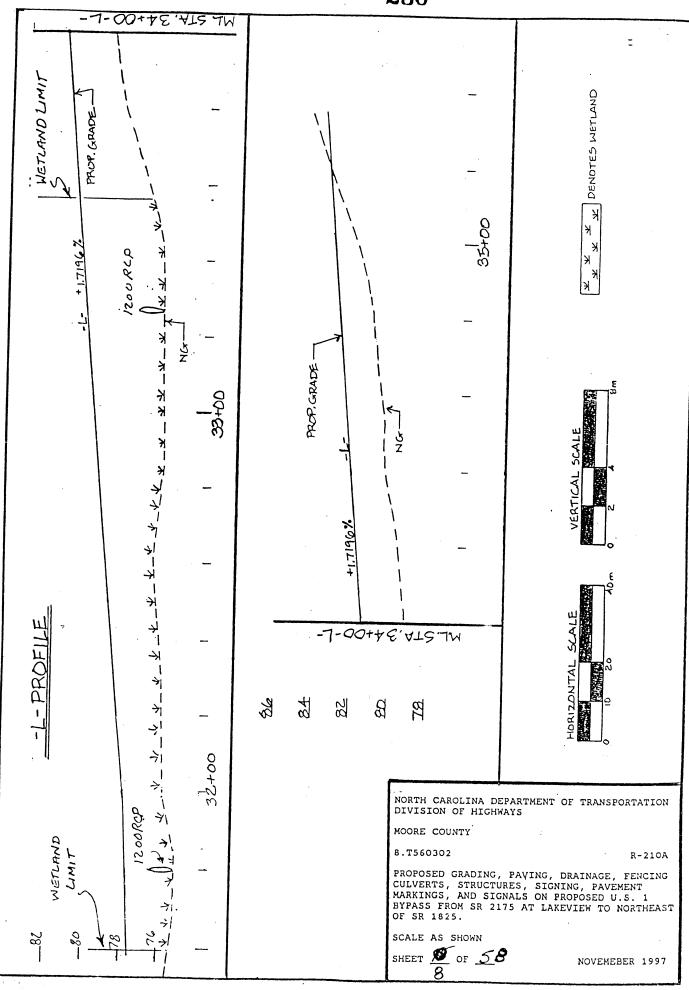
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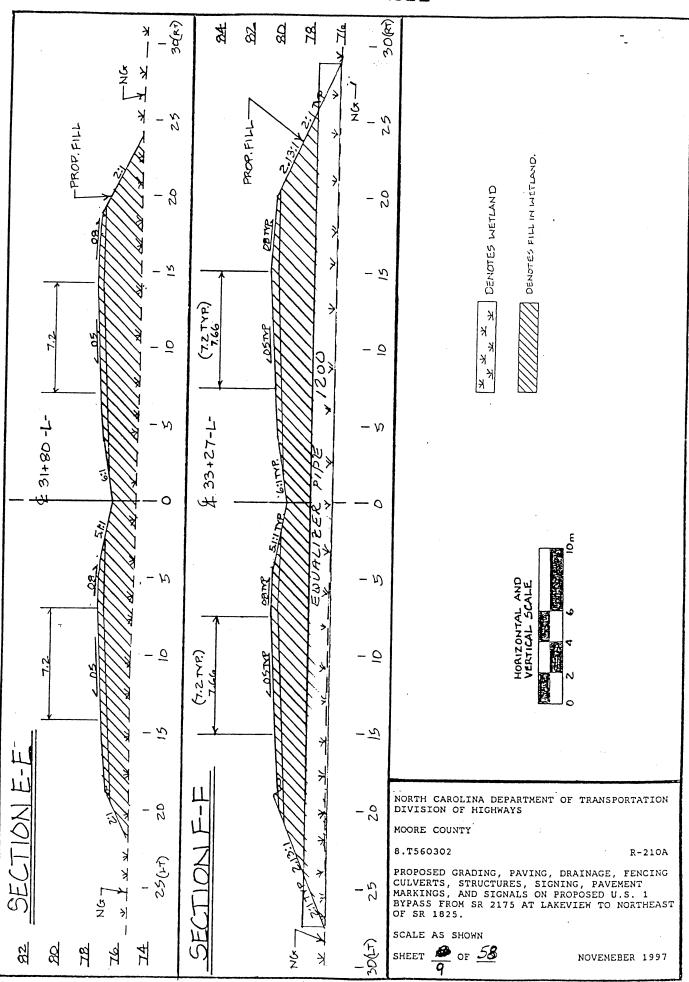
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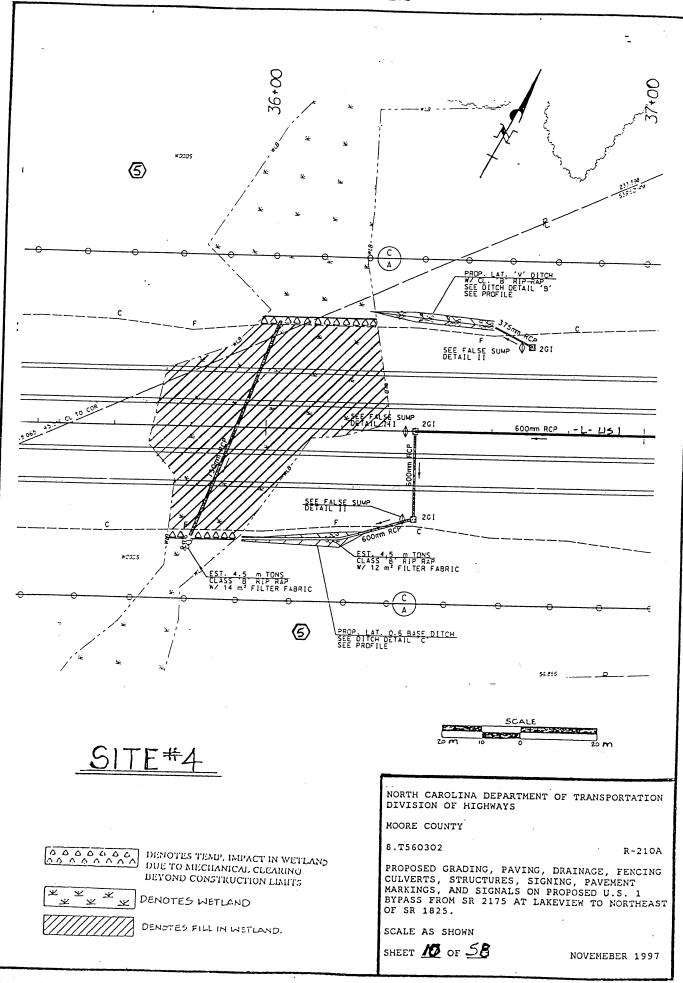
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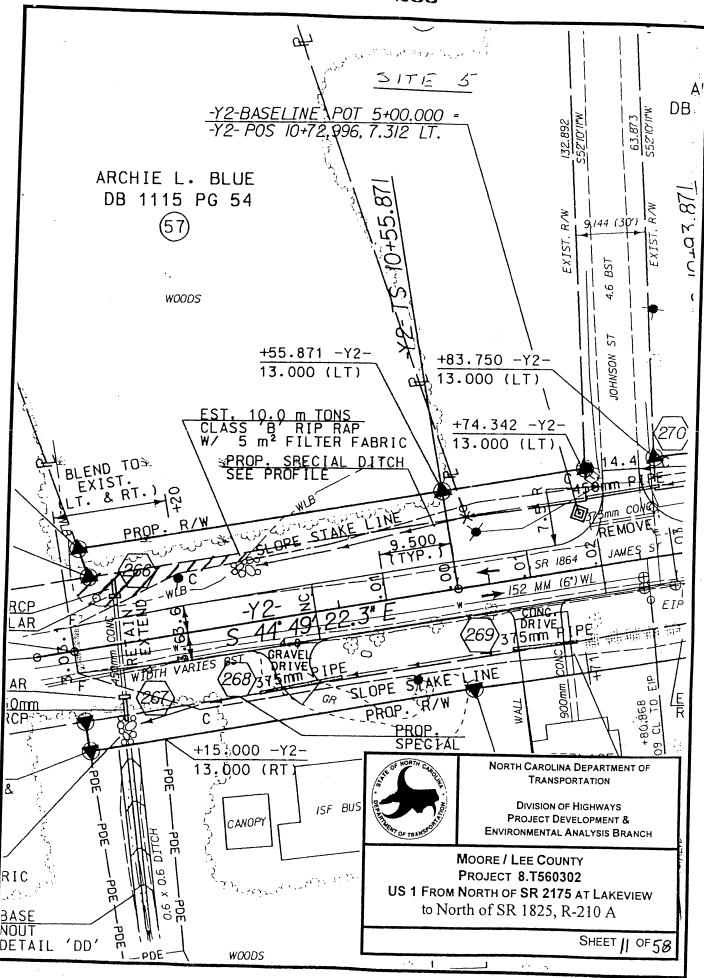
DENOTES TEMP. IMPACT IN WETLAND DUE TO MECHANICAL CLEARING BEYOND CONSTRUCTION LIMITS

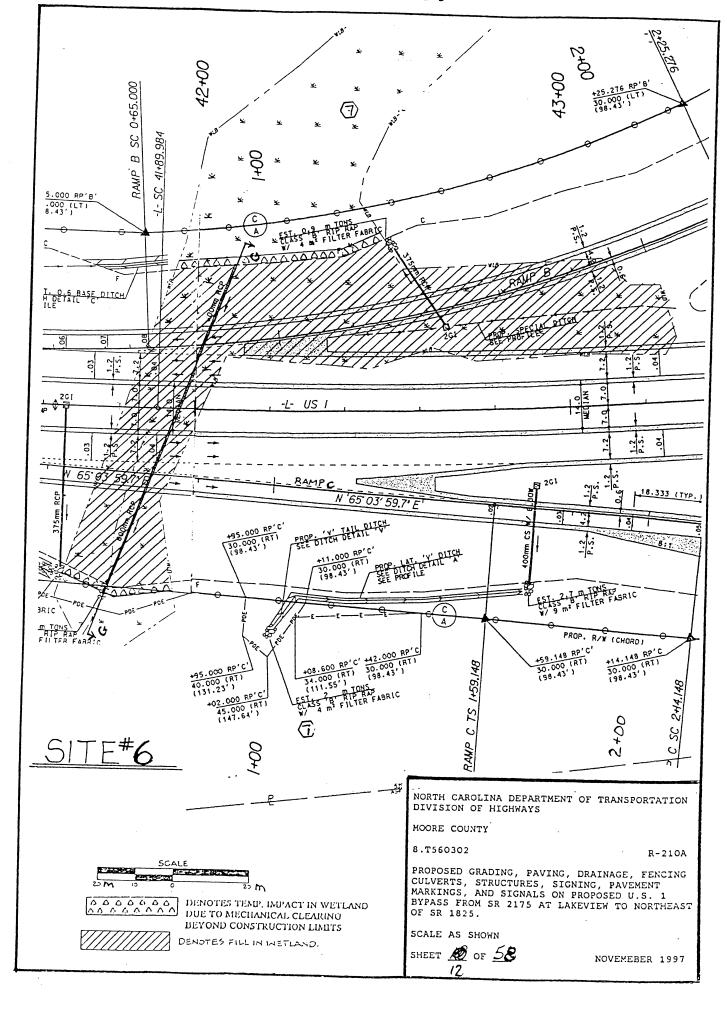
DENOTES FILL IN WETLAND.

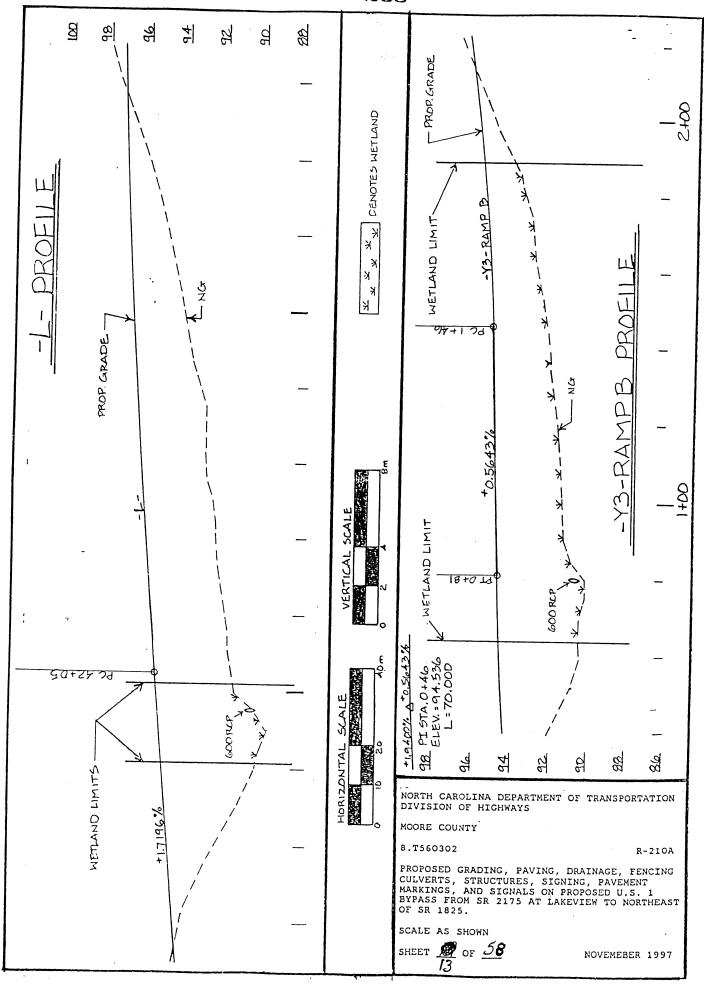


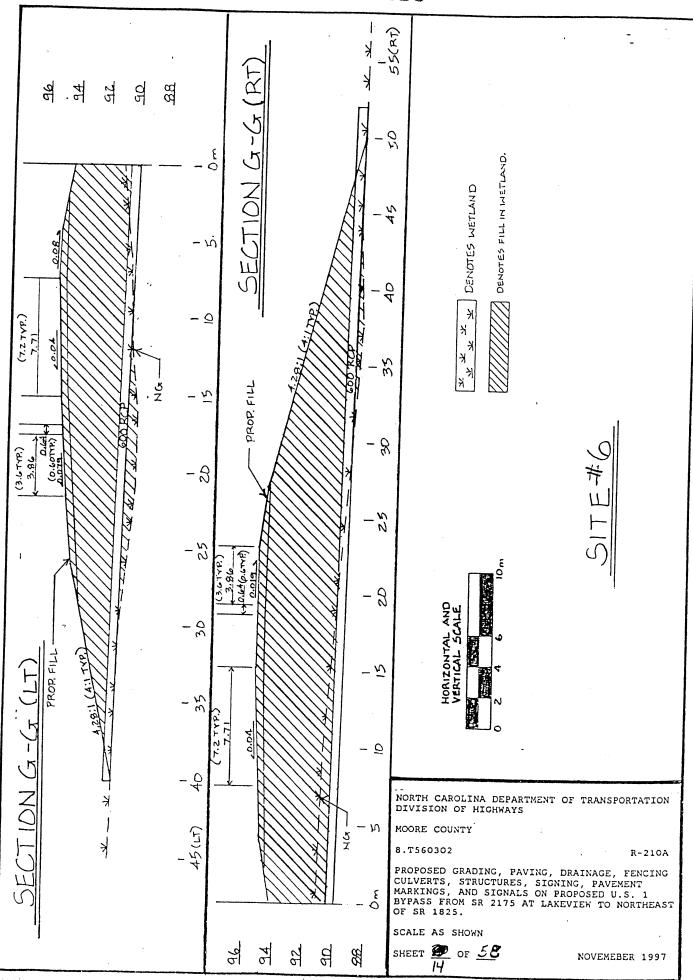


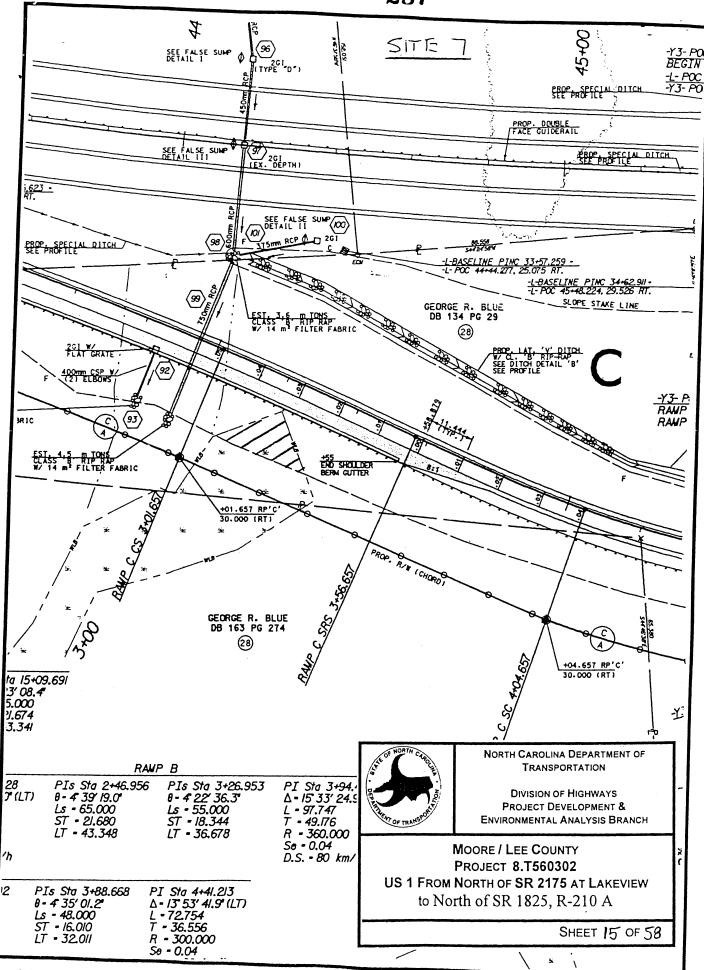


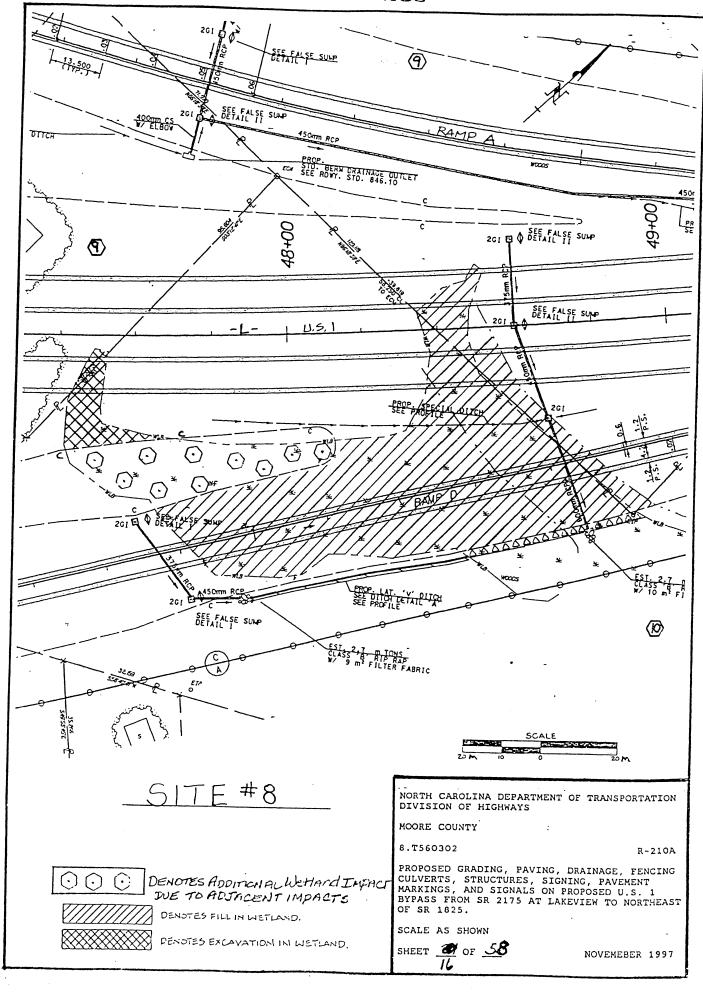


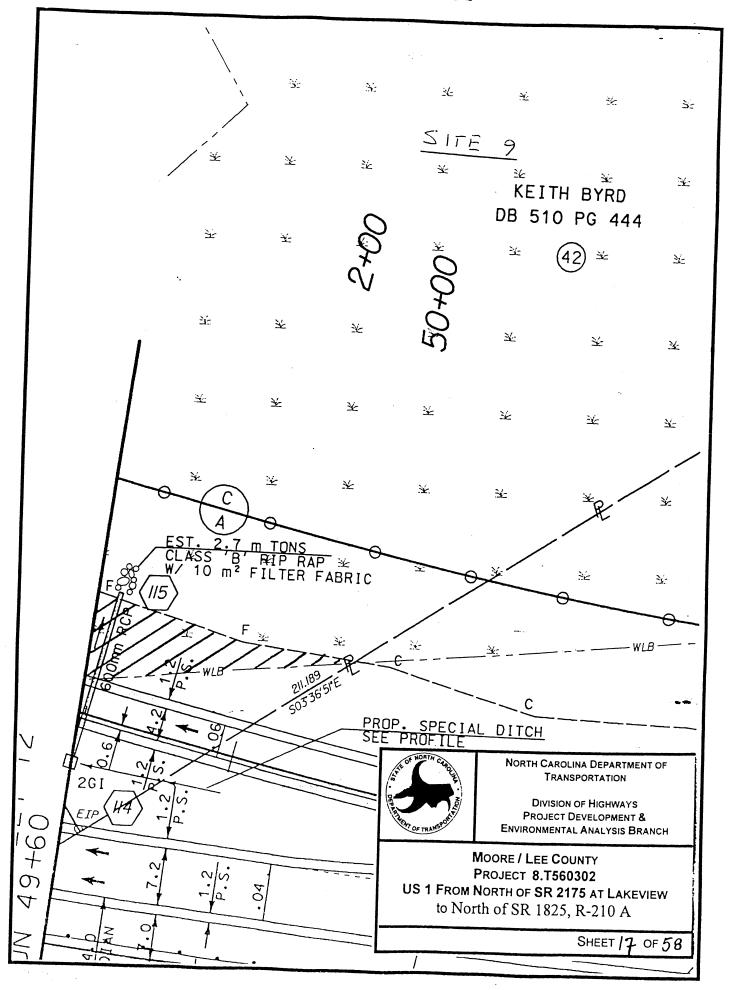


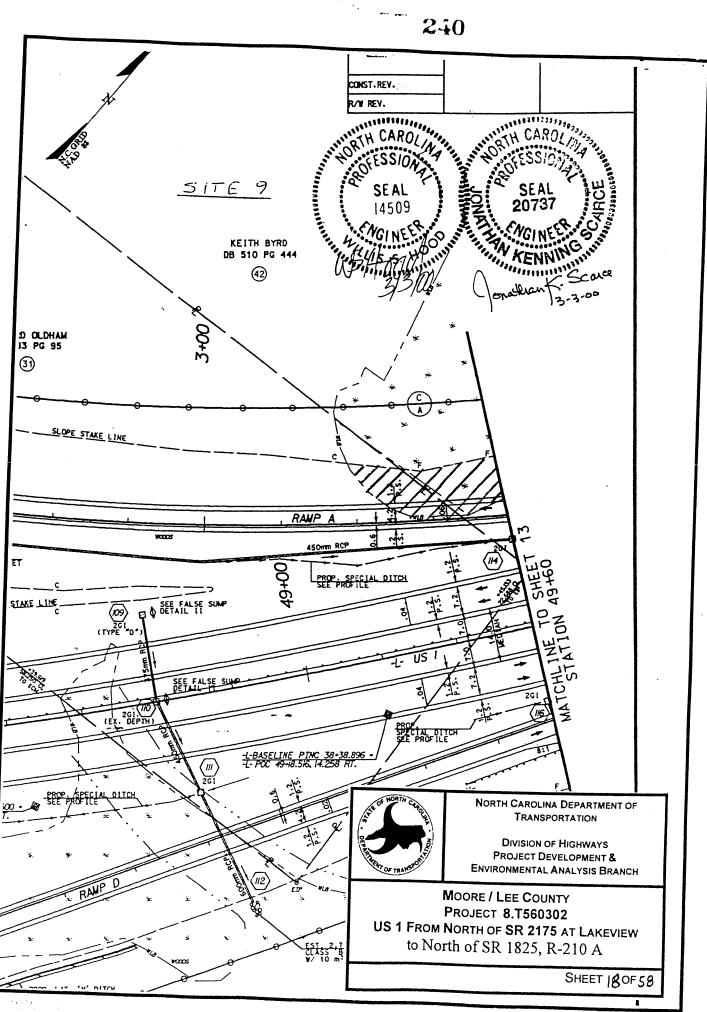


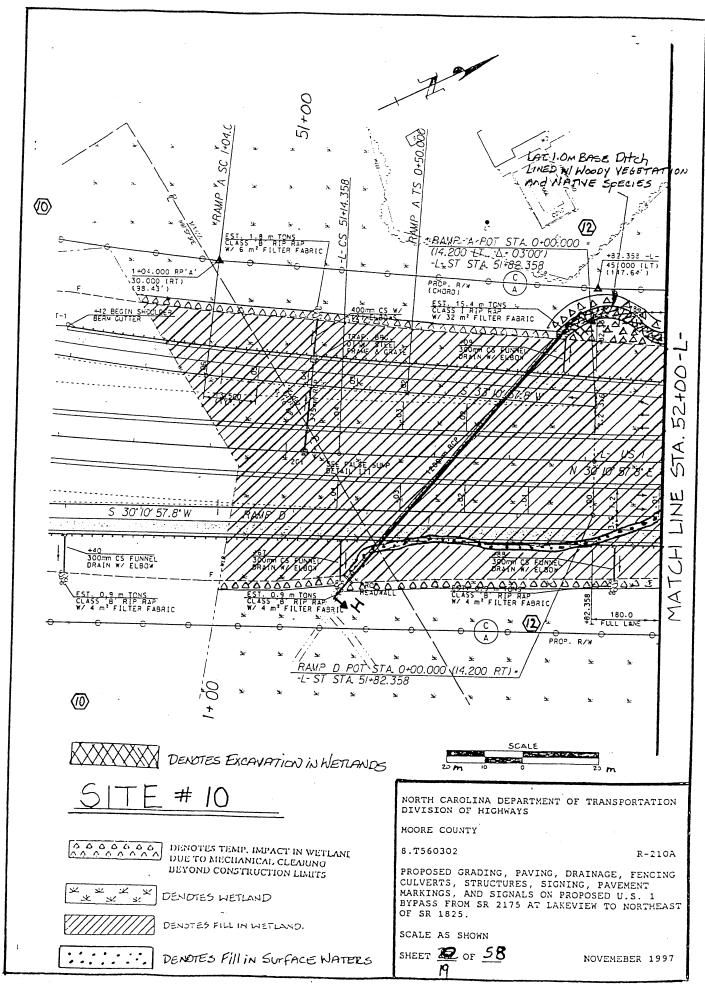


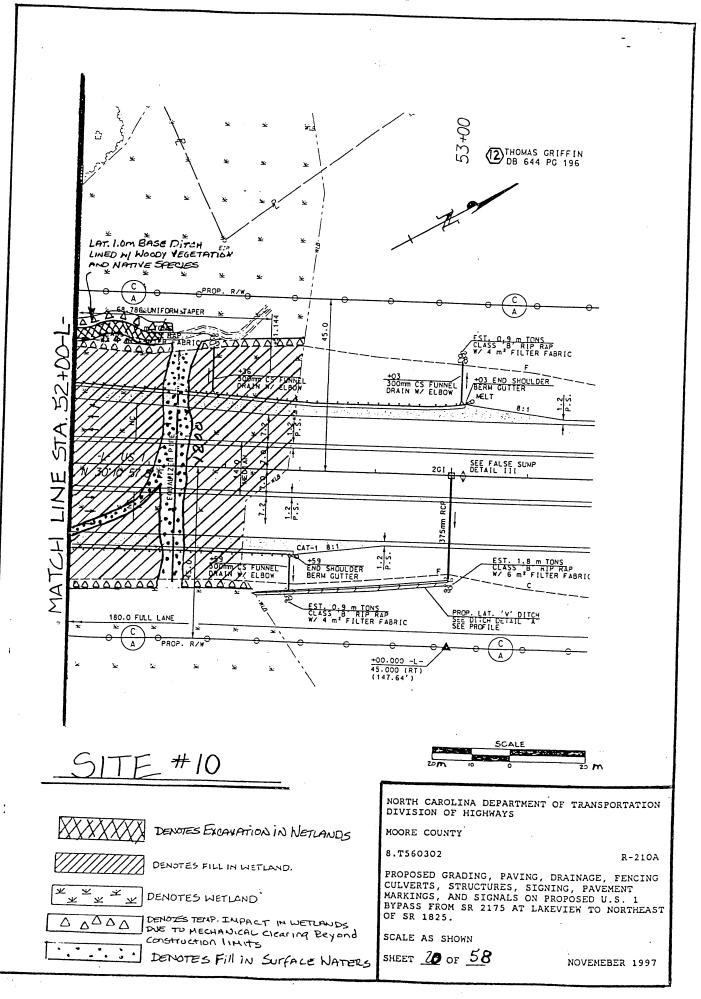


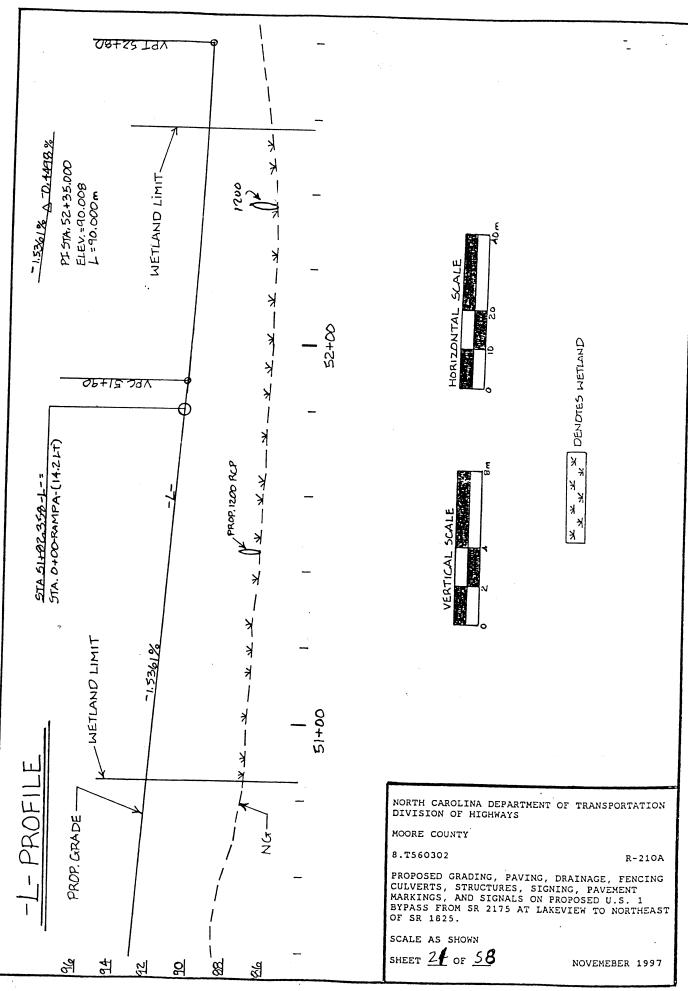


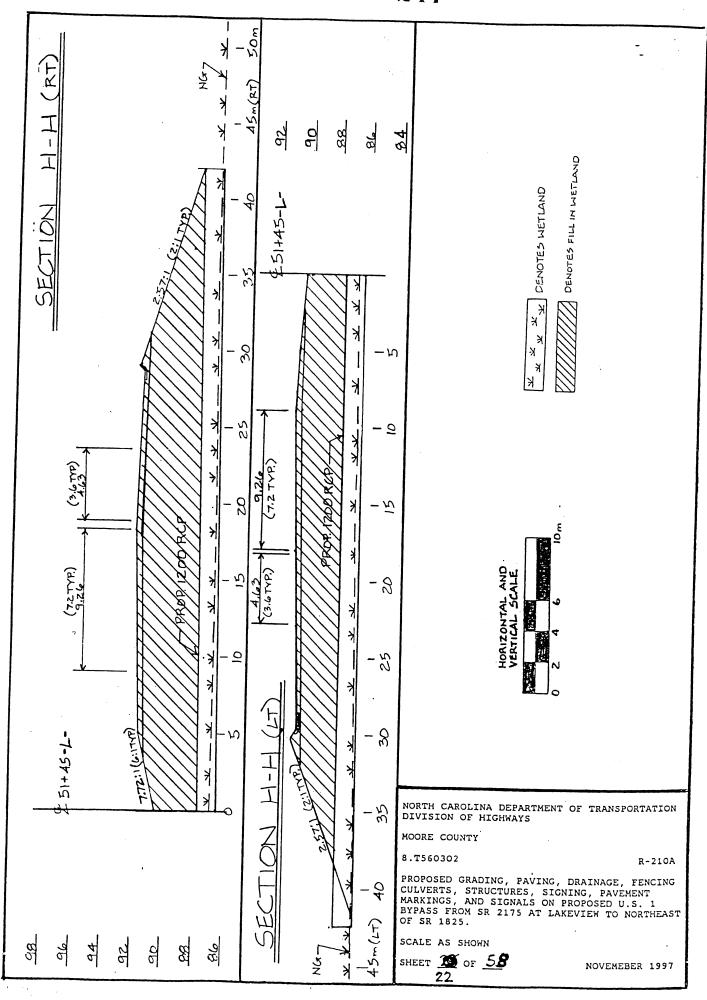


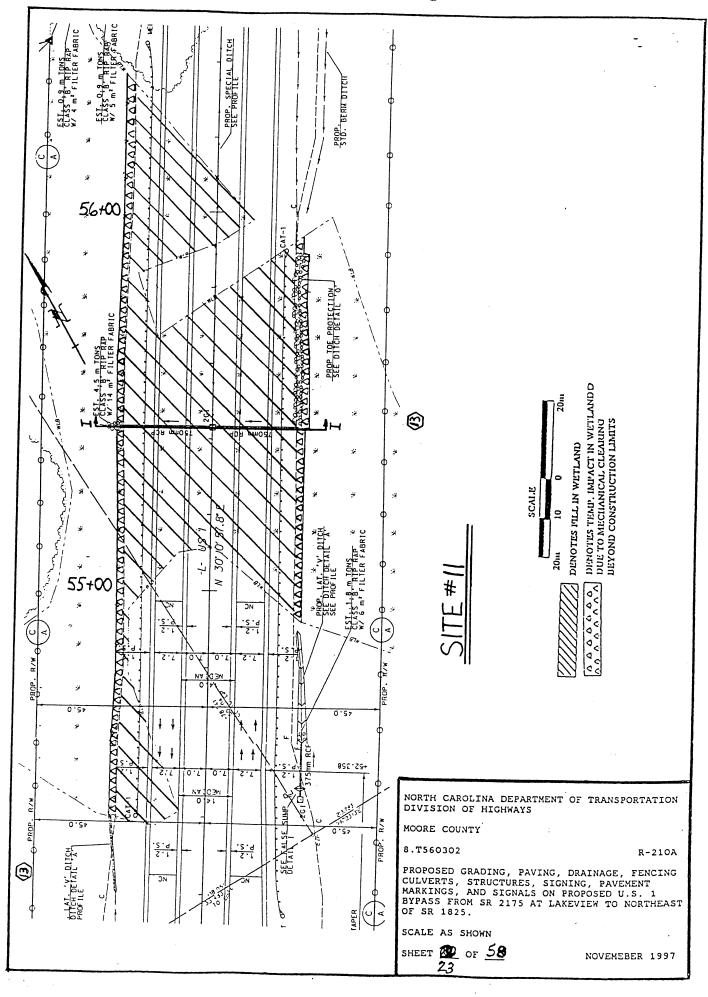


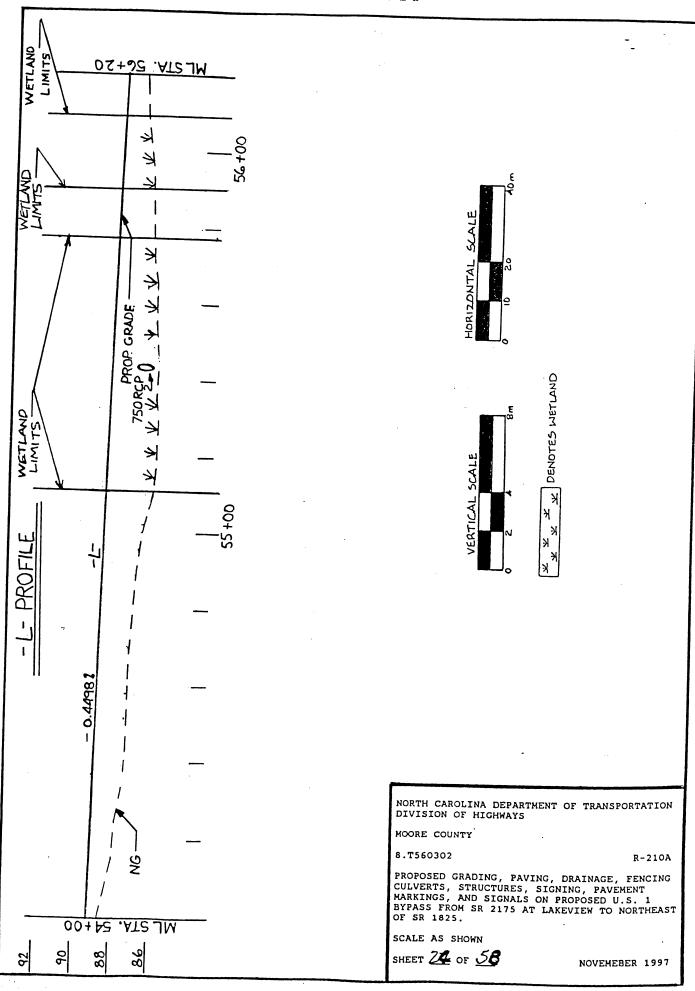


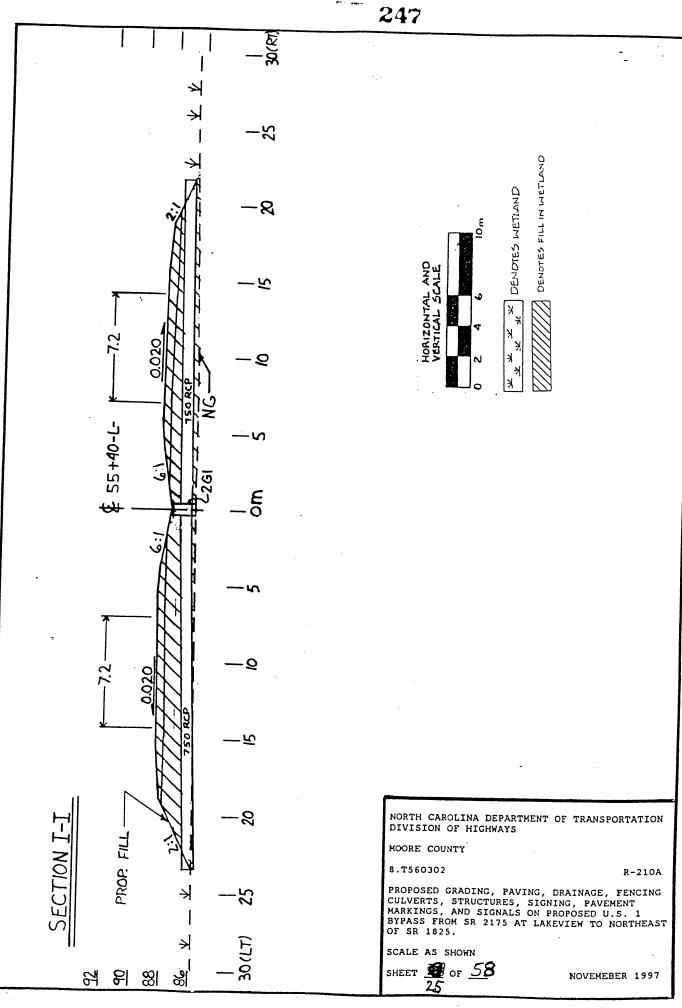


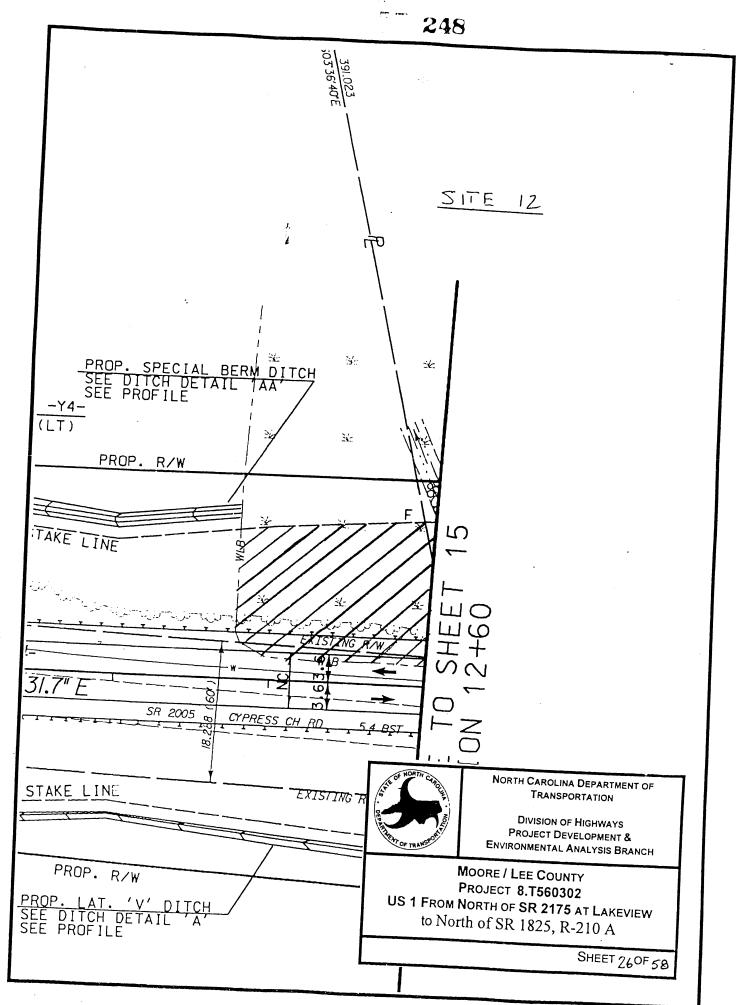


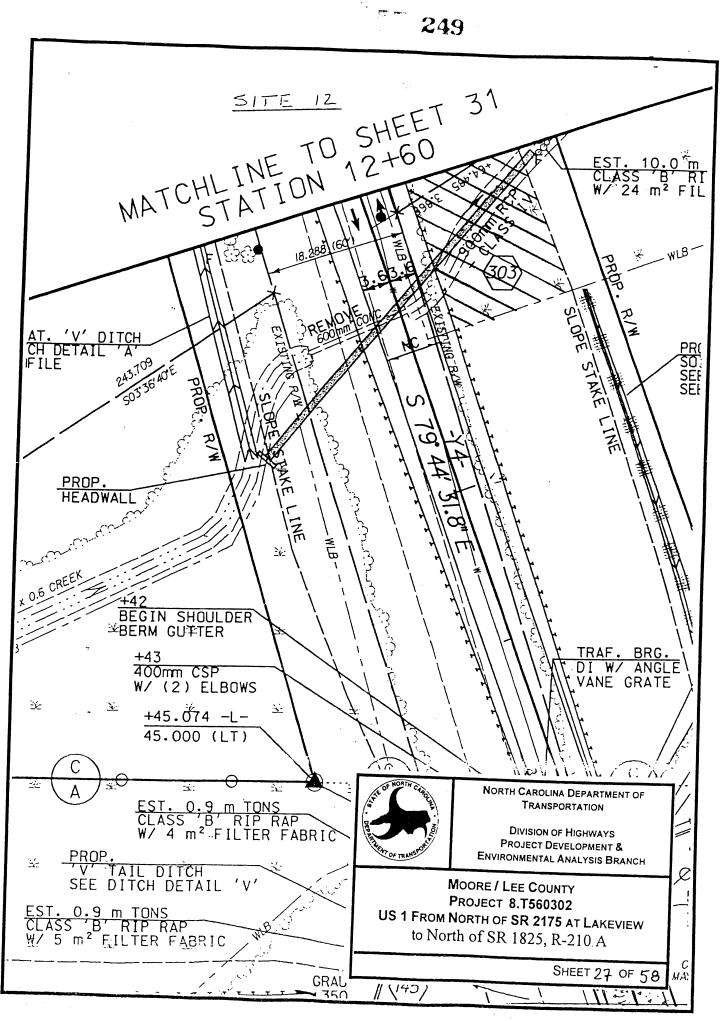


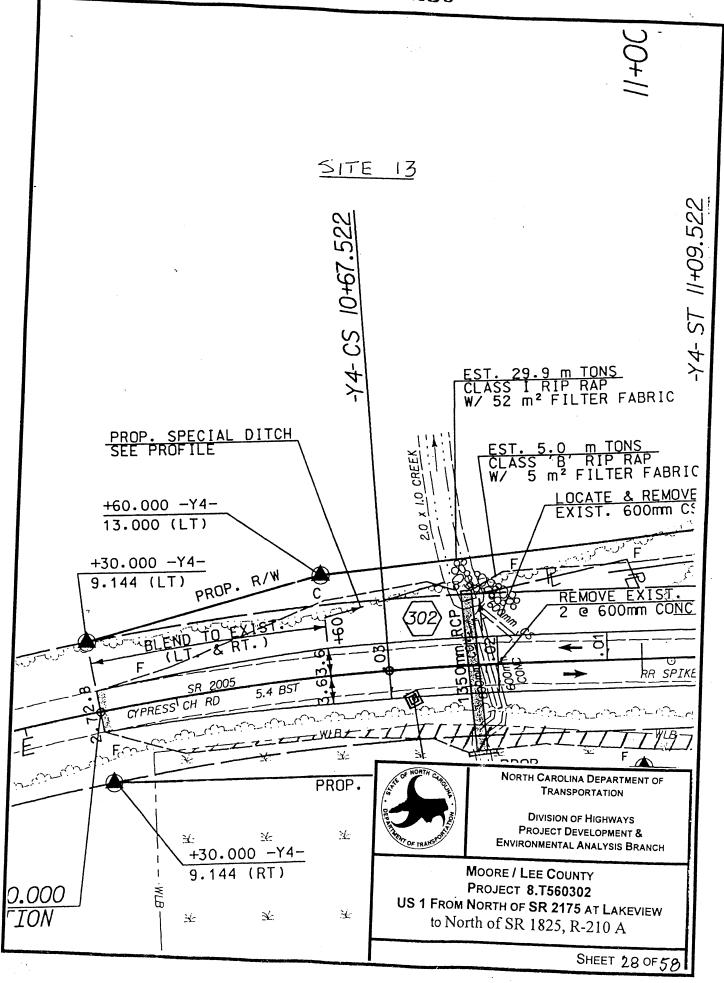


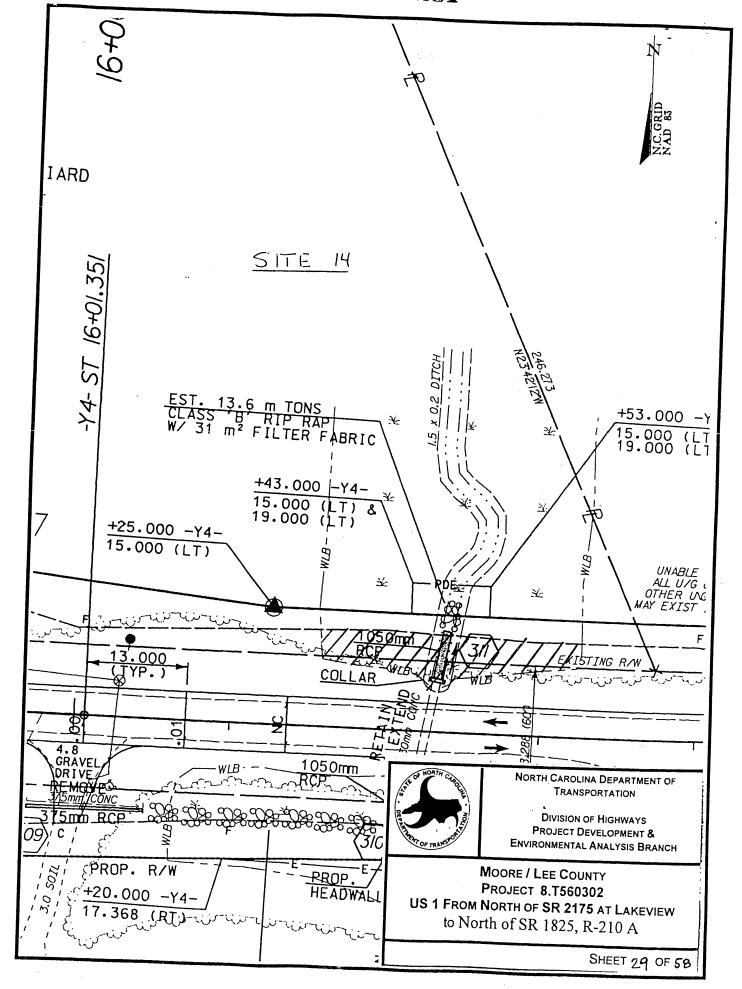


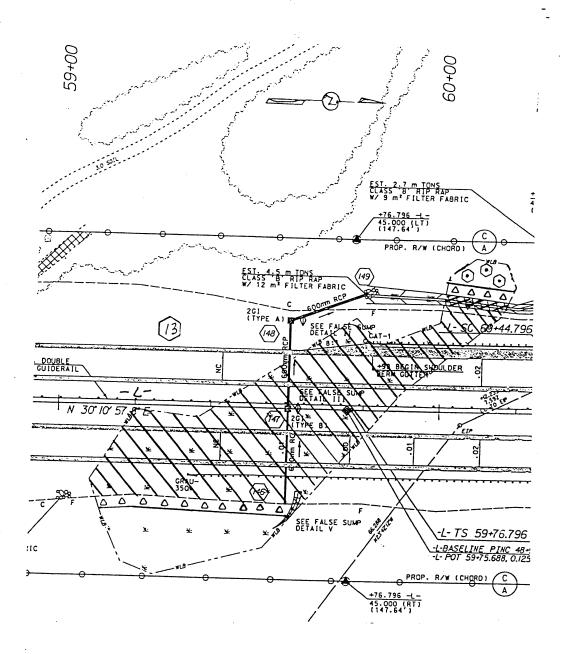










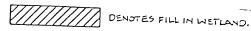


HORIZONTAL SCALE

SITE 14a

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DENOTES ADDITIONAL WETLAND IMPACT DUE TO ADJACENT IMPACTS



Δ Δ Δ Δ Δ Δ Δ DENOTES TEMP IMPACT IN WETLAND DIE TO MECHANICAL CLEARING BEYOND CONSTRUCTION LIMITS.



DENOTES EXCAVATION IN WETLAND.

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

MOORE COUNTY

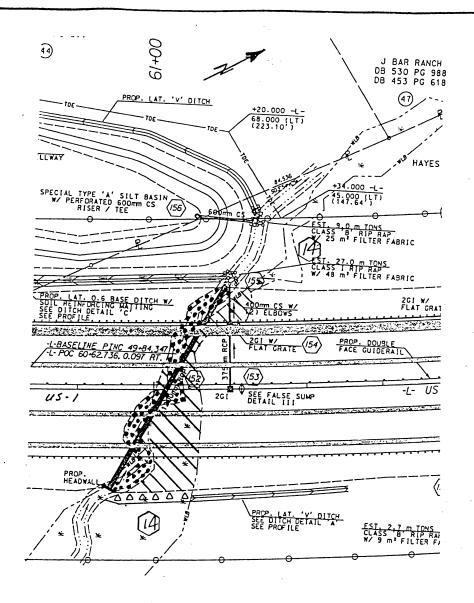
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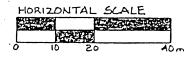
R-210A

PROPOSED GRADING, PAVING, DRAINAGE, FENCING CULVERTS, STRUCTURES, SIGNING, PAVEMENT
MARKINGS, AND SIGNALS ON PROPOSED U.S. 1
BYPASS FROM SR 2175 AT LAKEVIEW TO NORTHEAST
OF SR 1825.

SCALE AS SHOWN

SHEET Ø OF 58 30





SITE No. 15

DENOTES FILL IN WETLAND.

DENOTES FILL IN SURFACE WATER.

PENOTES TEMP. IMPACT IN WETLAND DUE TO MECHANICAL CLEARING BEYOND CONSTRUCTION LIMITS. NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

MOORE COUNTY

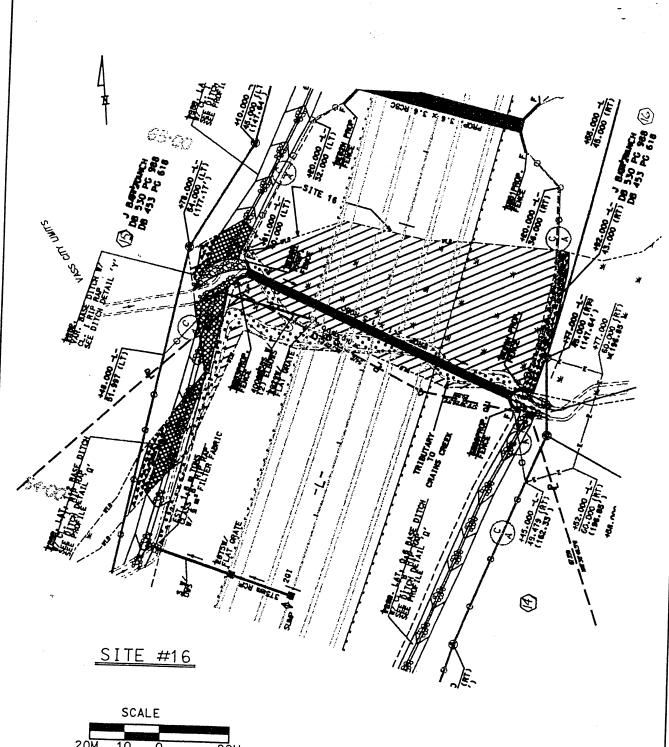
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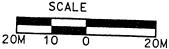
R-210A

PROPOSED GRADING, PAVING, DRAINAGE, FENCING CULVERTS, STRUCTURES, SIGNING, PAVEMENT MARKINGS, AND SIGNALS ON PROPOSED U.S. 1 BYPASS FROM SR 2175 AT LAKEVIEW TO NORTHEAST OF SR 1825.

SCALE AS SHOWN

SHEET **₩** OF **58**





DENOTES FILL IN WETLAND



DENOTES EXCAVATION IN WETLANDS



DENOTES FILL IN SURFACE WATER



DENOTES TEMP. IMPACT IN WETLAND DUE TO MECHANICAL CLEARING BEYOND CONSTRUCTION LIMITS

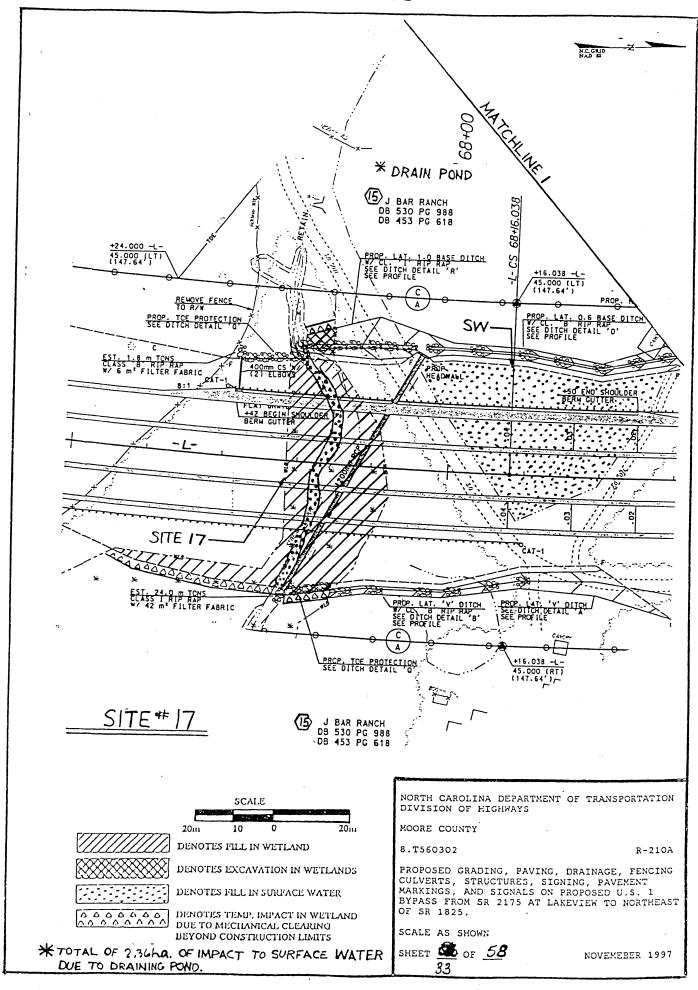
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

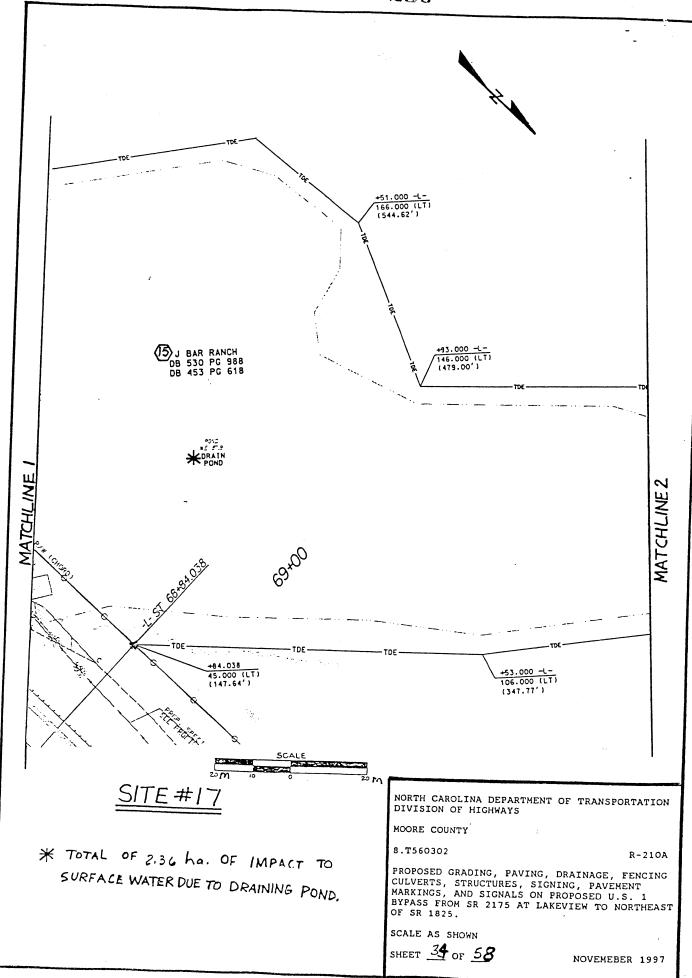
MOORE COUNTY

8.T560302

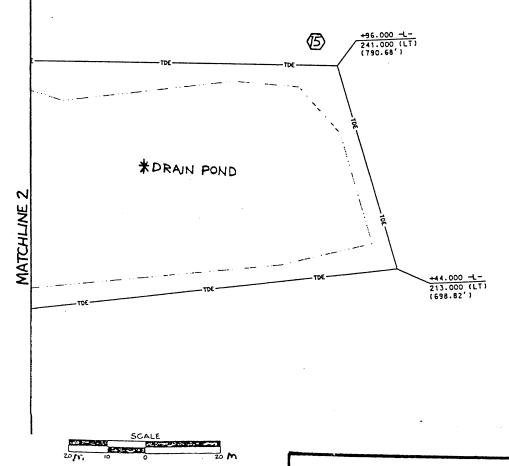
PROPOSED GRADING, PAVING, DRAINAGE, FENCING CULVERTS, STRUCTURES, SIGNING, PAVEMENT
MARKINGS, AND SIGNALS ON PROPOSED U.S. 1
BYPASS FROM SR 2175 AT LAKEVIEW TO NORTHEAST
OF SR 1825

SCALE AS SHOWN SHEET 310F 58





TEMPORARY DRAINAGE EASEMENT AROUND POND @ J BAR RANCH



SITE #17

* TOTAL OF 2.36 ha. OF IMPACT TO SURFACE WATER DUE TO DRAINING POND. NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

MOORE COUNTY

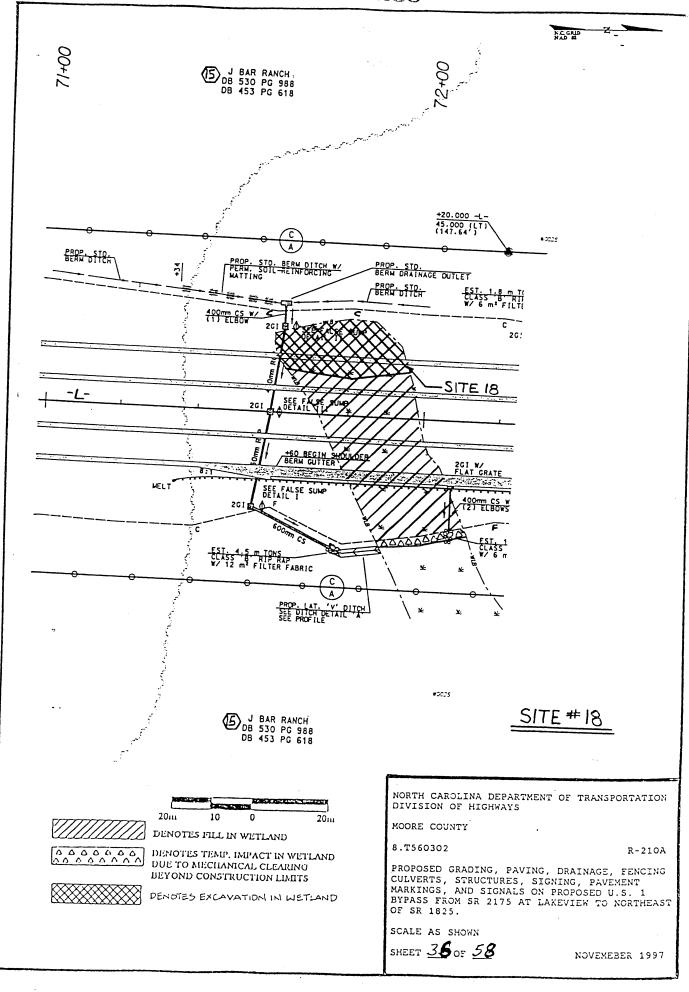
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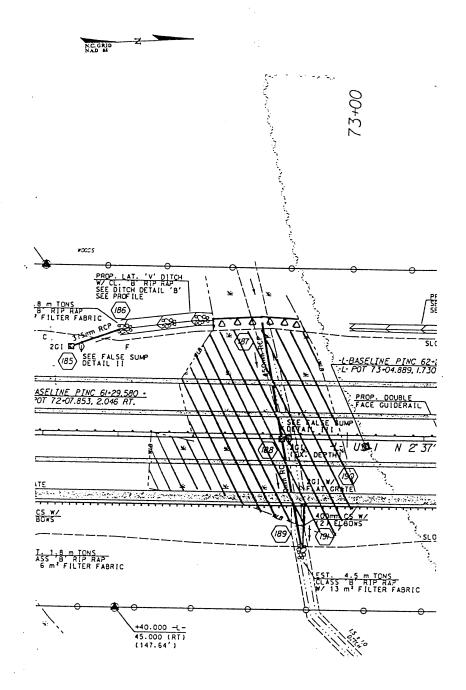
R-210A

PROPOSED GRADING, PAVING, DRAINAGE, FENCING CULVERTS, STRUCTURES, SIGNING, PAVEMENT MARKINGS, AND SIGNALS ON PROPOSED U.S. 1 BYPASS FROM SR 2175 AT LAKEVIEW TO NORTHEAST OF SR 1825.

SCALE AS SHOWN

SHEET . OF <u>58</u>







SITE 18a



DENOTES FILL IN WETLAND.

DENOTES TEMP. IMPACT IN WETLAND DUE TO MECHANICAL CLEARING BEYOND CONSTRUCTION LIMITS.

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

MOORE COUNTY

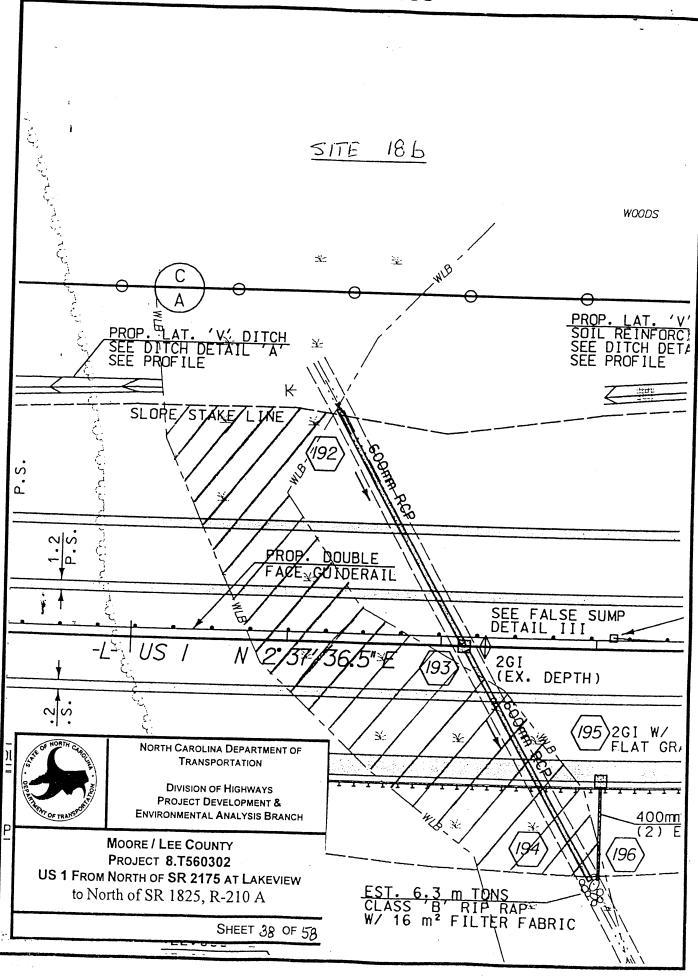
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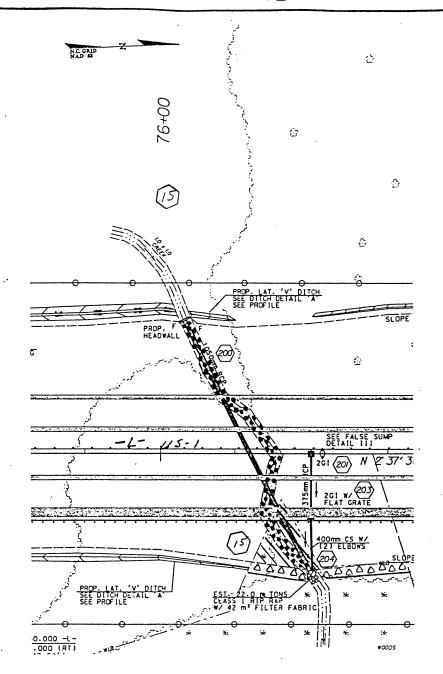
R-210A

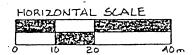
PROPOSED GRADING, PAVING, DRAINAGE, FENCING CULVERTS, STRUCTURES, SIGNING, PAVEMENT MARKINGS, AND SIGNALS ON PROPOSED U.S. 1 BYPASS FROM SR 2175 AT LAKEVIEW TO NORTHEAST OF SR 1825.

SCALE AS SHOWN

SHEET 💇 OF 58







SITE 19



DENOTES FILL IN WETLAND.



DENOTES FILL IN SURFACE WATER.

PENOTES TEMP. IMPACT IN WETLAND DUE TO MECHANICAL CLEARING BEYOND CONSTRUCTION LIMITS. NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

MOORE COUNTY

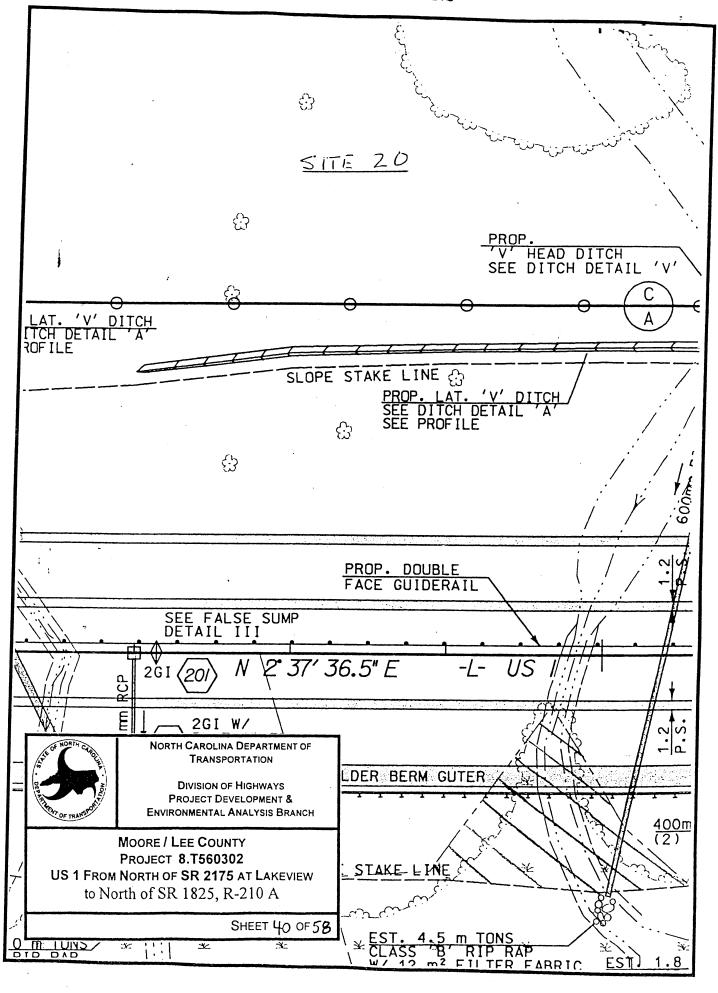
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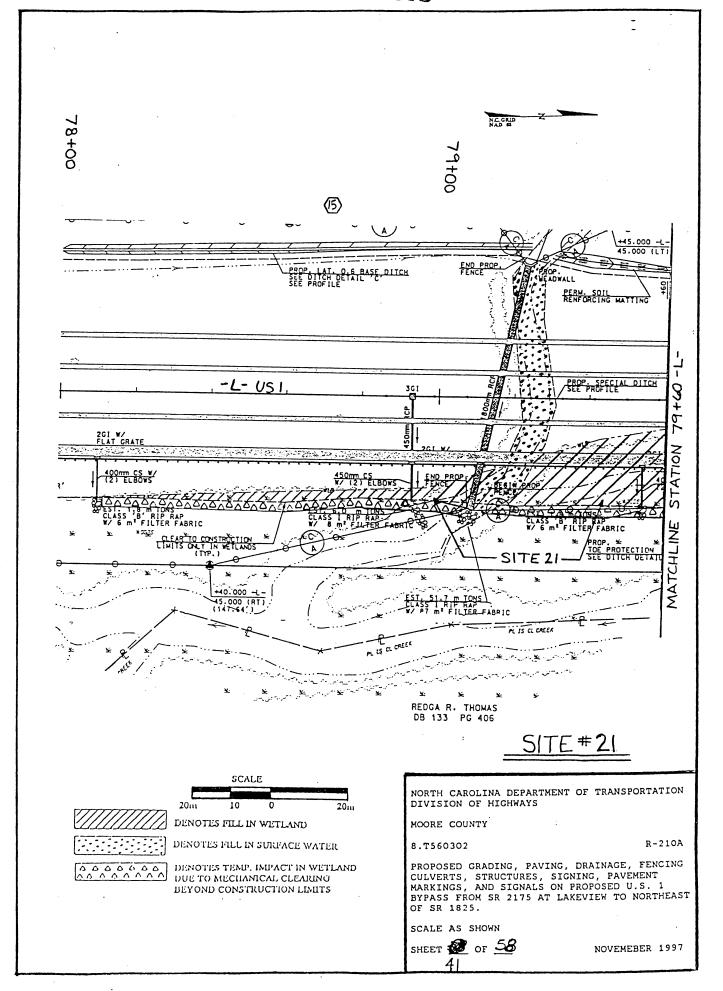
R-210A

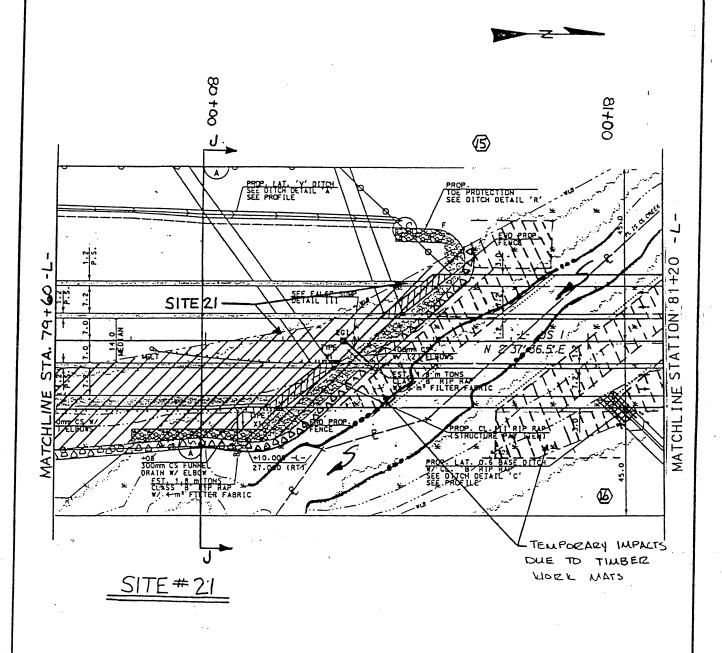
PROPOSED GRADING, PAVING, DRAINAGE, FENCING CULVERTS, STRUCTURES, SIGNING, PAVEMENT MARKINGS, AND SIGNALS ON PROPOSED U.S. 1 BYPASS FROM SR 2175 AT LAKEVIEW TO NORTHEAST OF SR 1825.

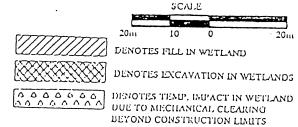
SCALE AS SHOWN

SHEET 39 OF 58









TEMP. IMPACT DUE TO TIMBER WIRE MATE = 0.2 ha AT SITE 21 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

MOORE COUNTY

8.T560302

-210A

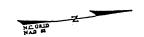
PROPOSED GRADING, PAVING, DRAINAGE, FENCING CULVERTS, STRUCTURES, SIGNING, PAVEMENT MARKINGS, AND SIGNALS ON PROPOSED U.S. 1 BYPASS FROM SR 2175 AT LAKEVIEW TO NORTHEAST OF SR 1825.

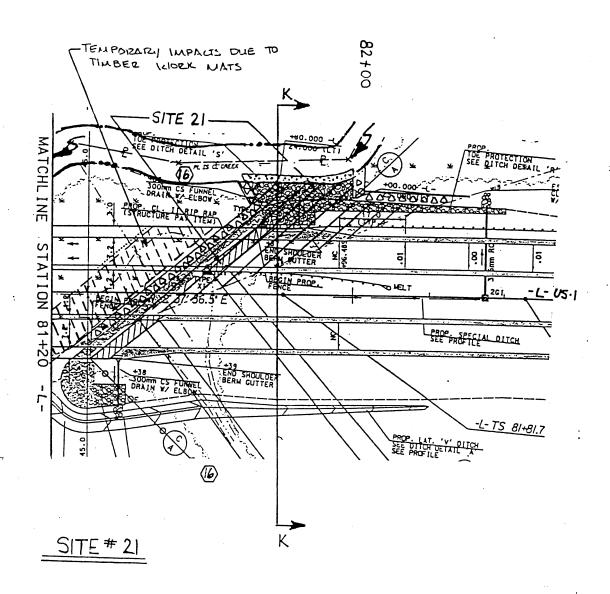
SCALE AS SHOWN

SHEET OF 58

NOVEMEBER 1997

CEV. 01/10/01





DENOTES FILL IN WETLAND

DENOTES TEMP, IMPACT IN WETLAND DUE TO MECHANICAL CLEARING BEYOND CONSTRUCTION LIMITS

DENOTES FILL IN SURFACE MATER

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

MOORE COUNTY

8. T 5 6 0 3 0 2

R-210A

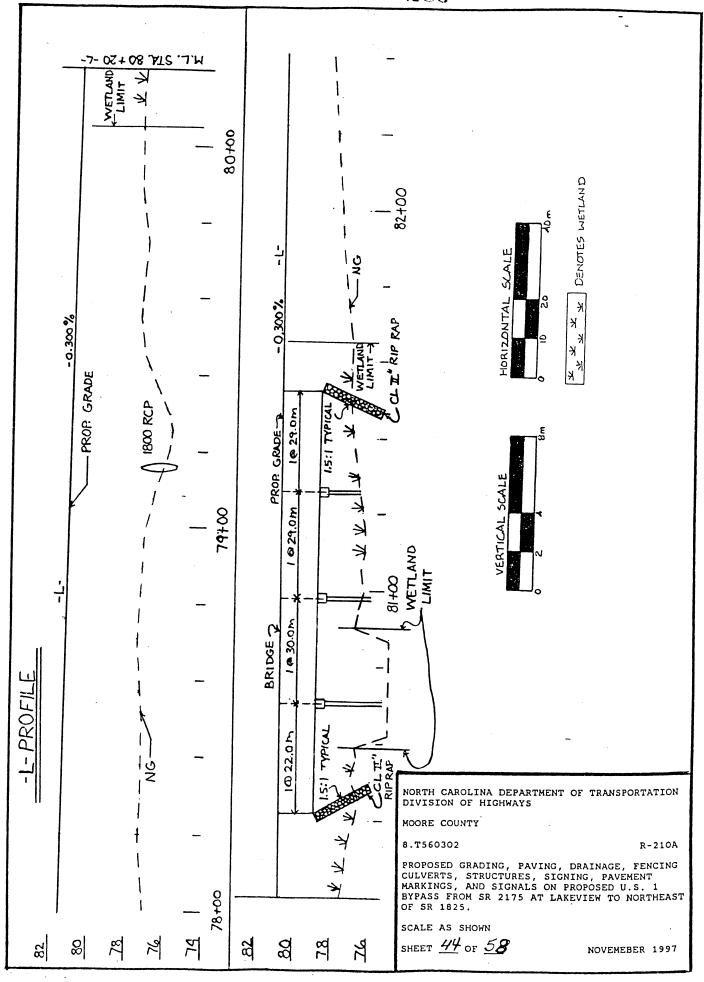
PROPOSED GRADING, PAVING, DRAINAGE, FENCING CULVERTS, STRUCTURES, SIGNING, PAVEMENT MARKINGS, AND SIGNALS ON PROPOSED U.S. 1 BYPASS FROM SR 2175 AT LAKEVIEW TO NORTHEAST OF SR 1825.

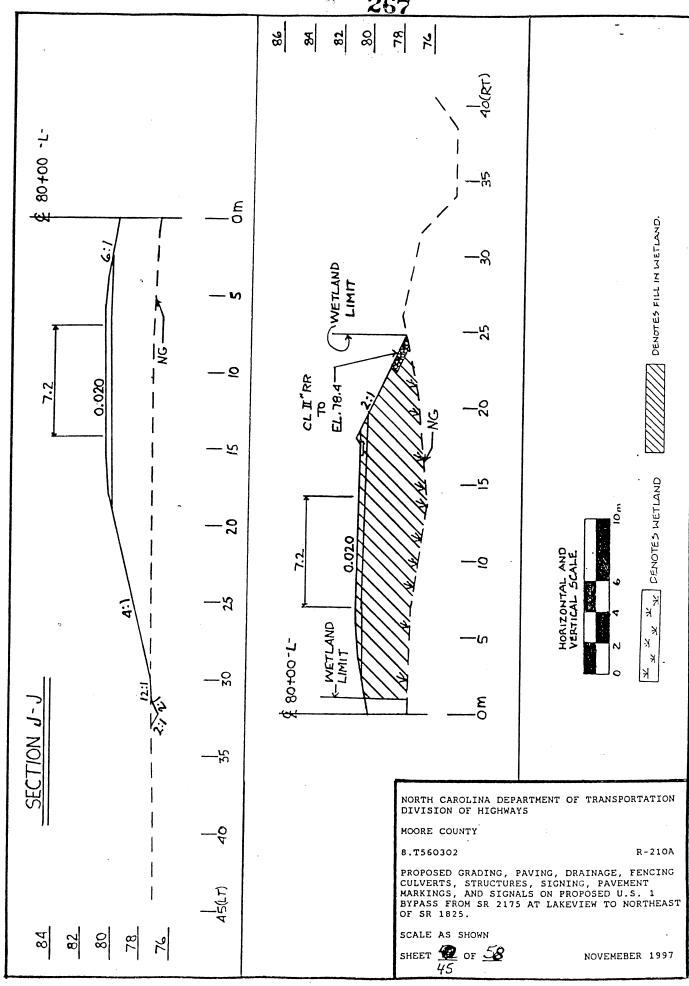
SCALE AS SHOWN

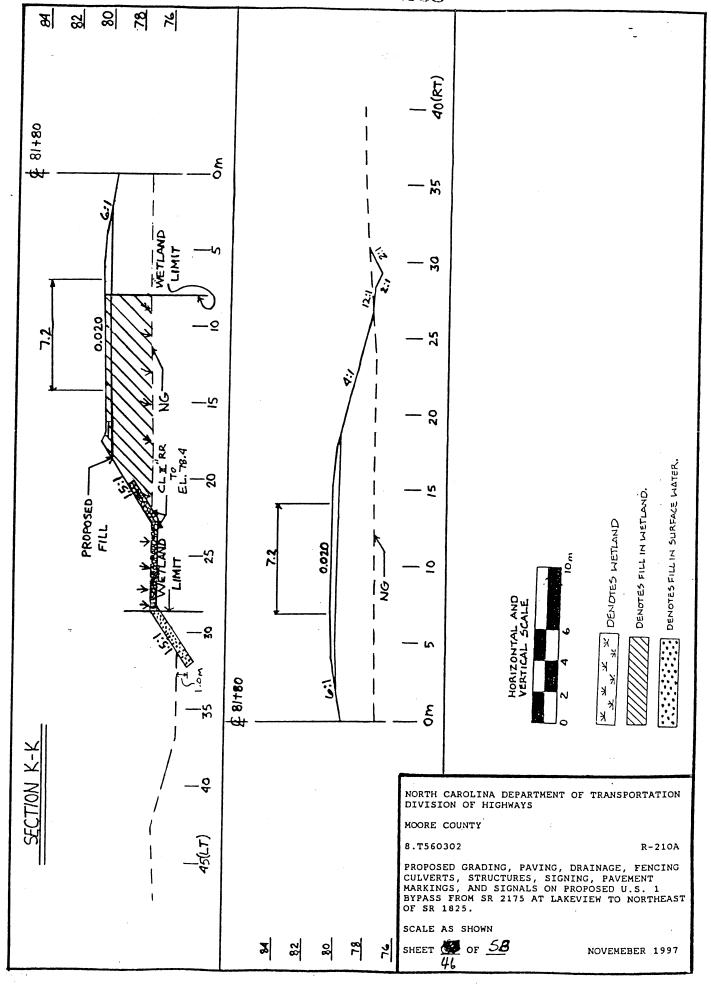
SHEET 43 OF 58

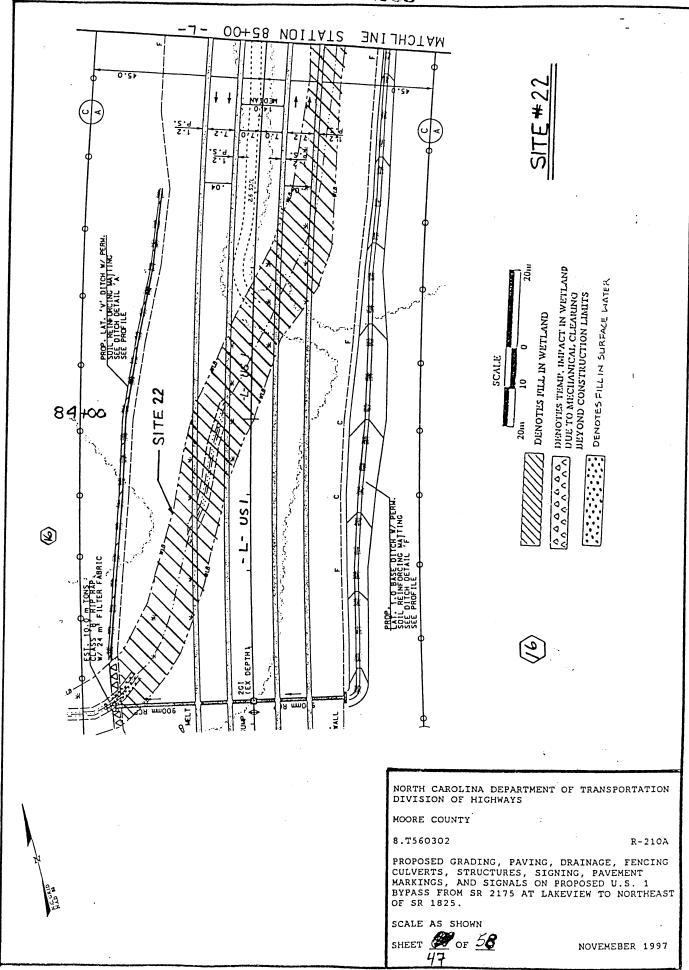
NOVEMEBER 1997

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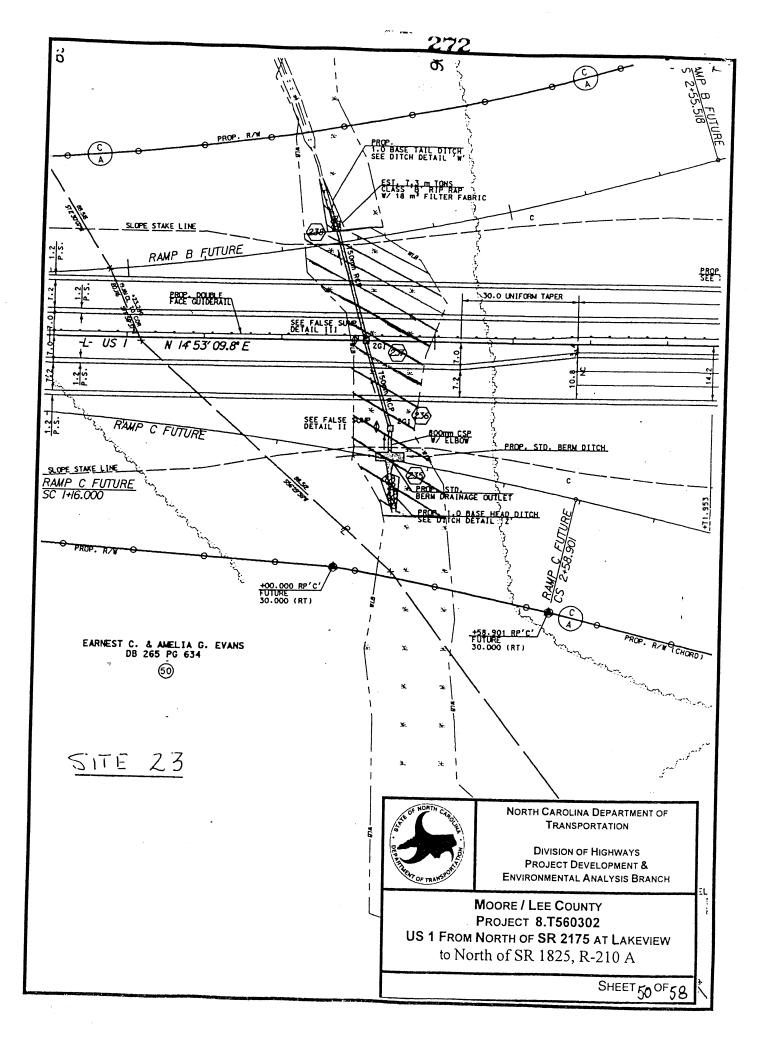
R-210A

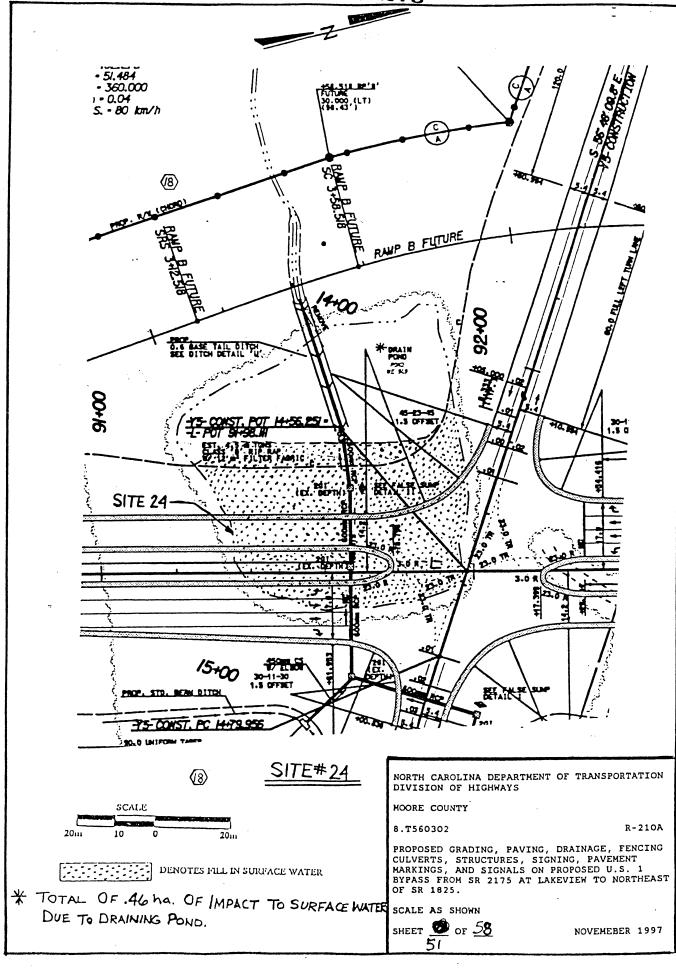
PROPOSED GRADING, PAVING, DRAINAGE, FENCING CULVERTS, STRUCTURES, SIGNING, PAVEMENT MARKINGS, AND SIGNALS ON PROPOSED U.S. 1 BYPASS FROM SR 2175 AT LAKEVIEW TO NORTHEAST OF SR 1825.

SCALE AS SHOWN

SHEET WOF 58

NOVEMEBER 1997





,ā.	N TO RING														
	TEMP. IMPACT IN WETLANDS DUE TO MECHANICAL CLEARING BEYOND CONSTRUCTION	LIMITS (ha)	0.24	Š	0.16		0.02 <0.01	0.02	į	€0.01 <0.01	ć	70:0	<u> </u>	0.01	0.02
	LENGTH OF FILL IN EXCAVATION CHANNEL WETLANDS IN WETLANDS CREATED	(ha)	\$0.0×	5	0.00	ć	0.00	0.00	ć	0.03	100	(0.0)	00.0	0.00	0.00
	FILL IN WETLANDS	Ē	2.09	0.14	1.12	۲, 0	0.0	0.48	0.02	0.38***	0.05	\$	0.47	0.10	0.01
	FILL IN LENGTH OF LENGTH OF FILL IN URFACE EXISTING CHANNEL WETLAND: WATER CHANNEL CREATED LOST	Ê	" o	0	0	0	• •	0	0	0	0	53	0	6	0
	LENGTH OF EXISTING CHANNEL LOST	Ē	\$	0	0	0	7	0	0	0	0	. 175	6	5	6 0
	FILL IN SURFACE WATER	(ha)	0.03	0.00	0.00	0.00	*0.0	0.00	00.0	00.0	0.00	0.07	0.00	40.01	<0.01
ILE - R210A	STRUCTURE SIZE	(mm)	3@27.4,2@18.0 SPAN BRIDGE	450 RCP	1200 RCP	750 RCP	450 RCP	600 RCP	750 RCP	600 RCP	600 RCP	1200 RCP	750 RCP	900 RCP CLASS IV	1350 RCP
SUMMARY TABLE - R210A	TRIBUTARY TO		CAPE FEAR RIVER	LITTLE RIVER	LITTLE RIVER	LITTLE RIVER	UTTLE RIVER	CRANE CREEK	CRANE CREEK	CRANE CREEK	CRANE CREEK	CRANE CREEK	CRANE CREEK	CRANE CREEK	CRANE CREEK
	STREAM NAME		LITTLE	TRIB. TO	TRIB. TO	TRIB. TO	TRIB. TO	TRIB. TO	TRIB. TO	TRIB. TO	TRIB. TO	TRIB. TO	TRIB. TO	TRIB. TO	TRIB. TO
7	PROJECT STATION		1 23+19 - 31+05 (LT+RT) -L-	12+20 - 12+57(LT+RT) -Y6-	31+50(RT+LT) - 34+83(RT) -L-	35+70 - 36+26(LT+RT) -L-	10+08(RT+LT) - 10+28(LT) -Y2-	41+81(LT+RT) - 43+29(LT) -L-	3+08(RT) - 3+34(RT) RAMP C	47+41(RT) - 47+89(RT) -L- 4+24(RT+LT) RAMP D	1+86(RT) - 2+62(RT) RAMP A	50+59 - 52+60(RT+LT) -L-	54+37(LT) - 58+09(RT+LT) -L-	12+35(LT) - 12+81(LT+RT) - 13+37(RT) -Y4-	13 10+39(RT) - 11+11(RT) -Y4-
	SITE NO.		-	7	n	4	20	6	7 3	B 7 7	9	5 5	₽	5 5	t

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

MOORE COUNTY

8.7560302

R-2 10A

PROPOSED GRADING, PAVING, DRAINAGE, FENCING CULVERTS, STRUCTURES, SIGNING, PAVEMENT MARKINGS, AND SIGNALS ON PROPOSED U.S. I BYPASS FROM SR 2175 AT LAKEVIEW TO NORTHEAST OF SR 1825.

SCALE AS SHOWN

SHEET **2** OF **58**

AUG 1999

		SUMMARY TABLE - R210A	BLE-R210A						٠
SITE PROJECT NO. STATION	STREAM NAME	M TRBUTARY TO	STRUCTURE SCZE	FILL IN 1 SURFACE WATER	FILL IN LENGTH OFLENGTH OF FILL IN URFACE EXISTING CHANNEL WETLAND WATER CHANNEL CREATED LOST	LENGTH OF CHANNEL CREATED	FILL IN WETLANDS I	LENGTH OF FILL IN EXCAVATION CHANNEL WETLANDS IN WETLANDS CREATED	TEMP. IMPACT IN WETLANDS DUE TO MECHANICAL CLEARING BEYOND CONSTRUCTION
			(mm)	(h.a.)	Ê	Ē	Ē	(F)	LIMITS
14 16+13(RT) - 16+65(LT) - Y4-	.Y4 TRIB. TO	CRANE CREEK	1050 RCP	<0.01	12	: د			(e u)
142 59+10 (RT) - 60+20(LT) -L-	-L- TRIB. TO	CRANE CREEK	908 008	c	! •	,	40.0	0:00	0.02
15 60+85(RT) - 61+39(LT) - L-	L- TRIB. TO		1000	- ;	>	6	7 7.	~ .01	0.02
18 64+35 - 85+Q5(LT+RT) -L-	L- TRIB. TO		100 000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	70.0	82	0	0.08	0	40.01
17 67+15(RT) - 68+50(LT) -L-	•		מסע ביינעייי	5	183	•	0.28	0.04	0.02
18 71+58(LT) - 72+12(RT) - L-			1200 RCP	<u>&</u>	89	0	0.13	v .01	0.02
		Crowne Creek	450 RCP	0	•	0	0.16	0	0.00
18a 72+48 -73+00 -L-	TRIB. TO	CRANE CREEK	450 RCP	o	0	0	ξ.	c	;
18b 74+05 (LT) - 74+60 (RT) -L-	-L- TRIB. TO	CRANE CREEK	600 RCP	0	0	0	. 5	> c	•.0 1
19 76+25(RT) - 76+57(RT) -L-	L- TRIB. TO	CRANE CREEK	1050 RCP	6 .0	8/			- 6	, 10.
20 76+62(RT) - 77+11(RT) -L-	L- TRIB. TO	CRANE CREEK	600 RCP	0.00	0			9 6	40.01
21 78+20(RT) - 80+68(RT) - L- 81+16(RT) - 82+22(LT) - L-	- CRANE	LITTLE CREEK	1 @ 22m, 1 @ 30m,	0.03	89		0.47	-0.00 -0.04	0.02
· ;			& 2 @ 28m SPAN BRIDGE						
22 83+28(LT) - 86+20(RT) -L-	TRIB. TO	CRANE CREEK	900 RCP	*0.0	t	0	0.33	ć	į
22a 87+50(LT) - 87+78(LT) -L-	TRIB. TO	CRANE CREEK	600 RCP	0	0	0	200		40.01
23 89+86 - 90+03(LT+RT) -L-	TRIB. TO	LITTLE CREEK	750 RCP	0.00	0	6	0.12	10.0 10.0	6.01

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

MOORE COUNTY

8.7560302

R-210A

PROPOSED GRADING, PAVING, DRAINAGE, FENCING CULVERTS, STRUCTURES, SIGNING, PAVEMENT MARKINGS, AND SIGNALS ON PROPOSED U.S. I BYPASS FROM SR 2175 AT LAKEVIEW TO NORTHEAST OF SR 1825.

SCALE AS SHOWN

SHEET 🐼 OF 58

AUG 1999

٠		SUMMARY TABLE - R210A	E-R210A						
SITE PROJECT NO. STATION	STREAM	TRIBUTARY TO	STRUCTURE SIZE	FILL IN L SURFACE WATER	FILL IN LENGTH OF I URFACE EXISTING WATER CHANNEL LOST	LENGTH OF CHANNEL CREATED	FILL IN LENGTH OF LENGTH OF FILL IN URFACE EXISTING CHANNEL WETLANDS WATER CHANNEL CREATED LOST	EXCAVATION IN WETLANDS	~ 0
			(mm)	(F)	Ê	Ē	(j.	(ha)	
24 91+21 - 91+89(LT+RT) -L-	TRIB. TO	LITTLE CREEK	600 RCP	0.25**	0	0	0.00	0.00	
25 94+70 - 95+20(LT+RT) -L-	TRIB. TO	LITTLE CREEK	1200 CS	0.03	155	9	0.25	0.01	
			TOTALS	.65hz.	987m	E 63	8.65ha.	0.05 ha.	
• TOTAL OF 238 ha. OF IMPACT TO SURFACE WATERS DUE TO DRAINING POND. (INCLUDES FILL)	IMPACT TO SU	JRFACE INCLUDES FILL)							
** TOTAL OF _48 hs. OF IMPACT TO SURFACE WATERS DUE TO DRAINING POND. (INCLUDES FILL)	IMPACT TO SI IING POND. (JRFACE INCLUDES FILL)							
***ADDITIONAL 0.08 hs. OF IMPACT TO WETLANDS DUE TO DRAINING ADJACENT WETLANDS	FIMPACT TO	WETLANDS ANDS							
Site No.1 and Site No. 21 are both below Headwaters	re both below	Headwaters	٠						
****ADDITIONAL 0.01 ha. OF IMPACT TO WETLANDS DUE TO DRAINING ADJACENT WETLANDS	DF IMPACT TO	WETLANDS							

N TEMP. IMPACT IN
S WETLANDS DUE TO
MECHANICAL CLEARING
BEYOND CONSTRUCTION
LIMITS
(ha)

0.00

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

MOORE COUNTY

8.7560302

R-2 10A

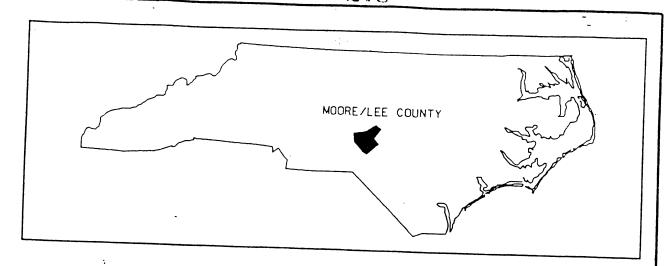
PROPOSED GRADING, PAVING, DRAINAGE, FENCING CULVERTS, STRUCTURES, SIGNING, PAVEMENT MARKINGS, AND SIGNALS ON PROPOSED U.S. I BYPASS FROM SR 2 175 AT LAKEVIEW TO NORTHEAST OF SR 1825.

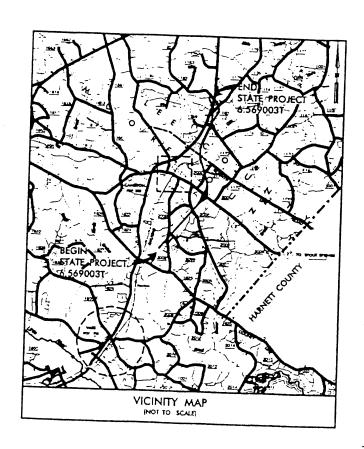
SCALE AS SHOWN

SHEET 55 OF 58

AUG

1999

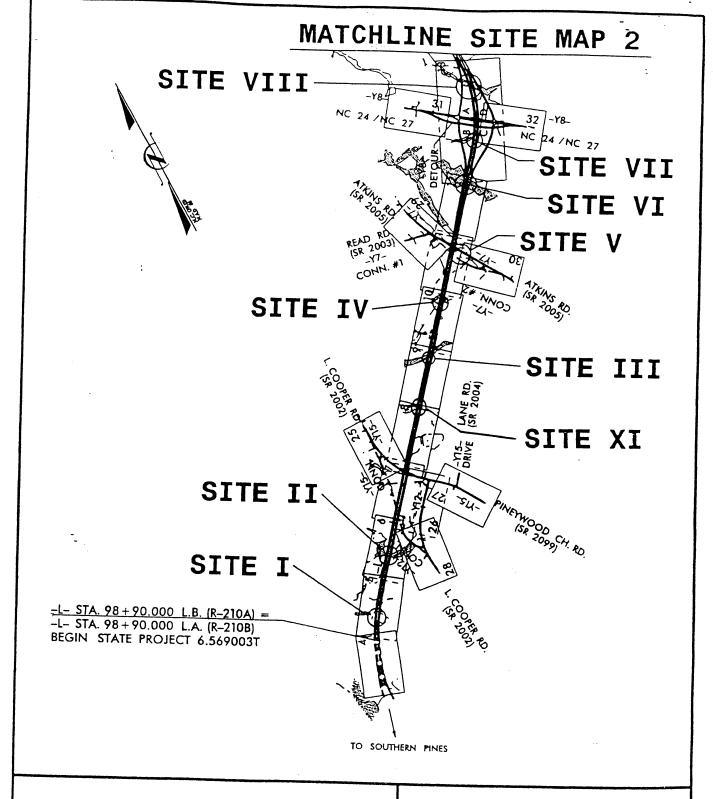




VICINITY MAPS

N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
MOORE/LEE COUNTY
PROJECT: 6.569003T (R-210B)
US 1 FROM NORTH OF SR 1825
TO NORTH OF SR 1182

SHEET | OF 37



SITE MAP 1

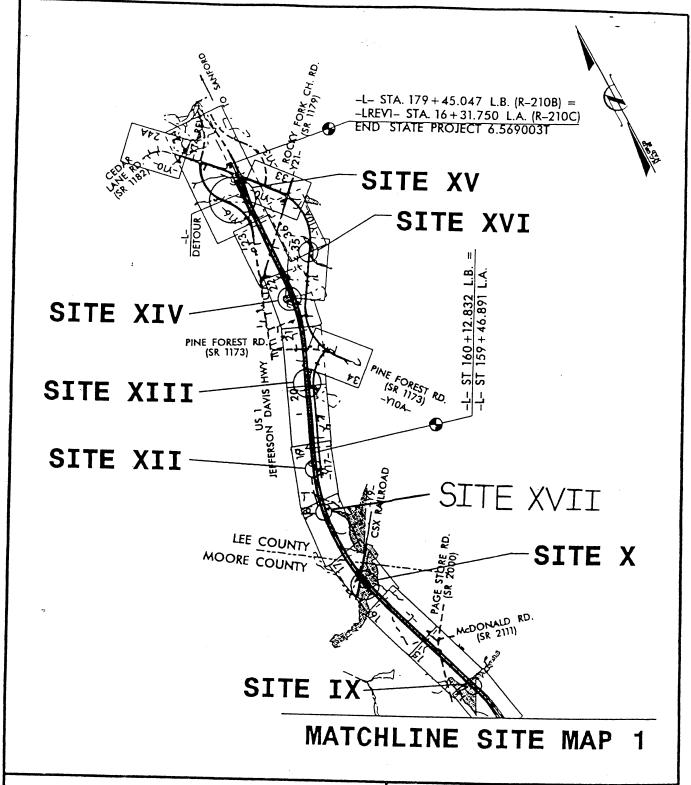
N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

MOORE/LEE COUNTY

PROJECT: 6.569003T (R-210B)

US 1 FORM NORTH OF SR 1825
TO NORTH OF SR 1182

SHEET 2 OF 37 8/2/99



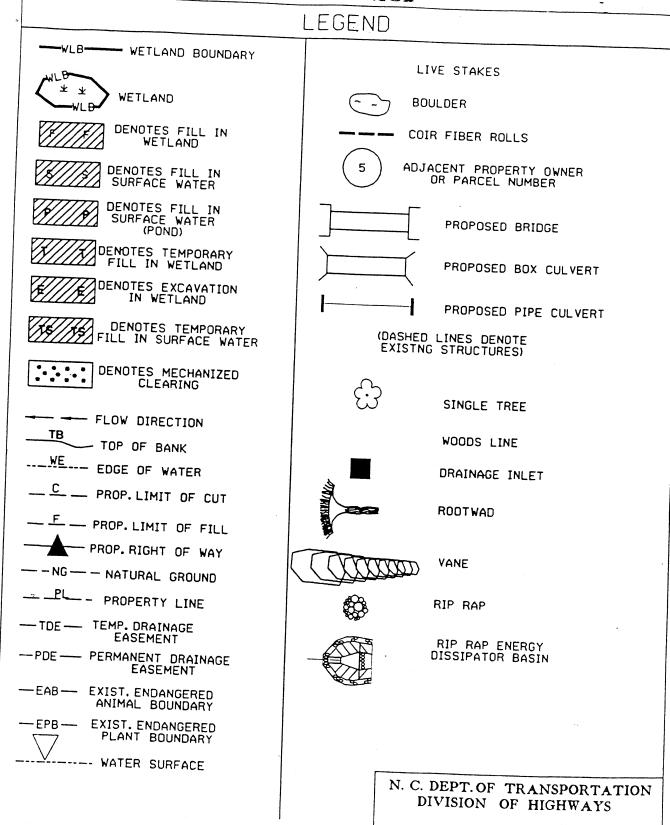
SITE MAP 2

N. C. DEPT.OF TRANSPORTATION
DIVISION OF HIGHWAYS
MOORE/LEE COUNTY

PROJECT: 6.569003T (R-210B)

US 1 FROM NORTH OF SR 1825 TO NORTH OF SR 1182

SHEET 3 OF 37 8/2/99

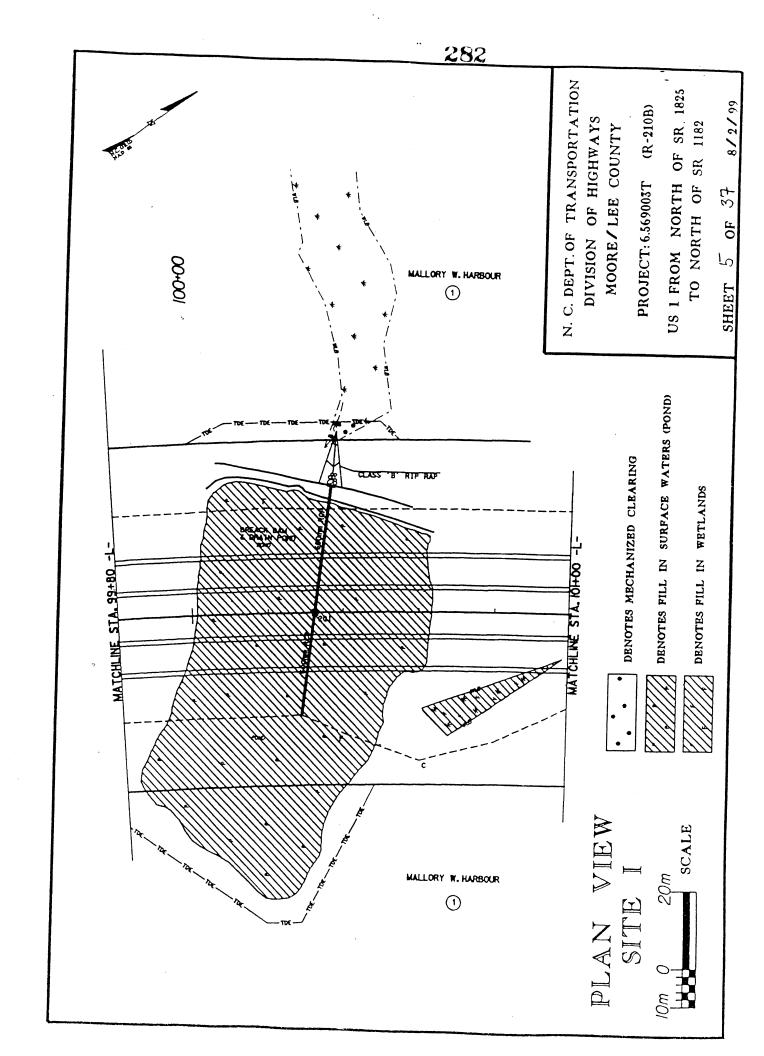


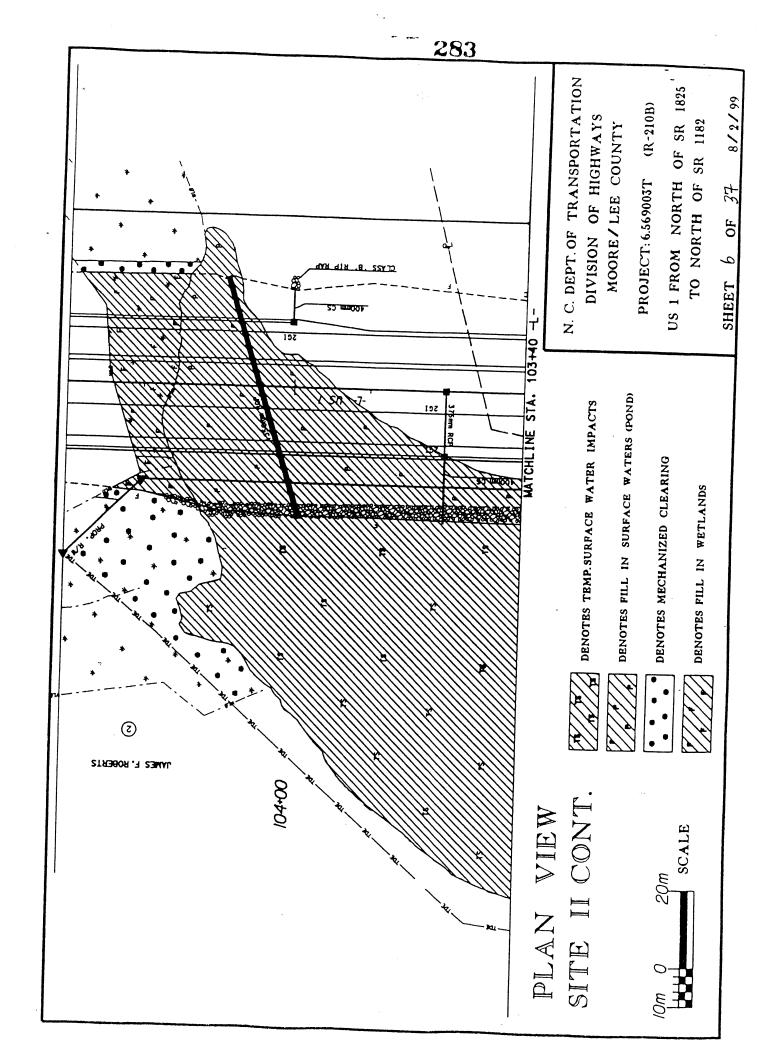
MOORE/LEE COUNTY

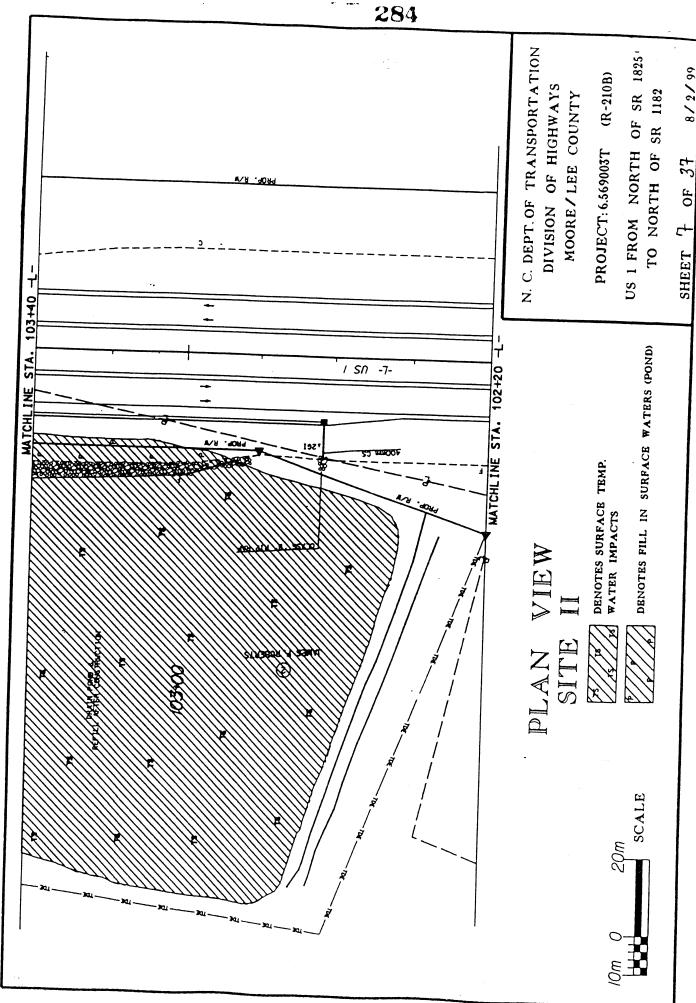
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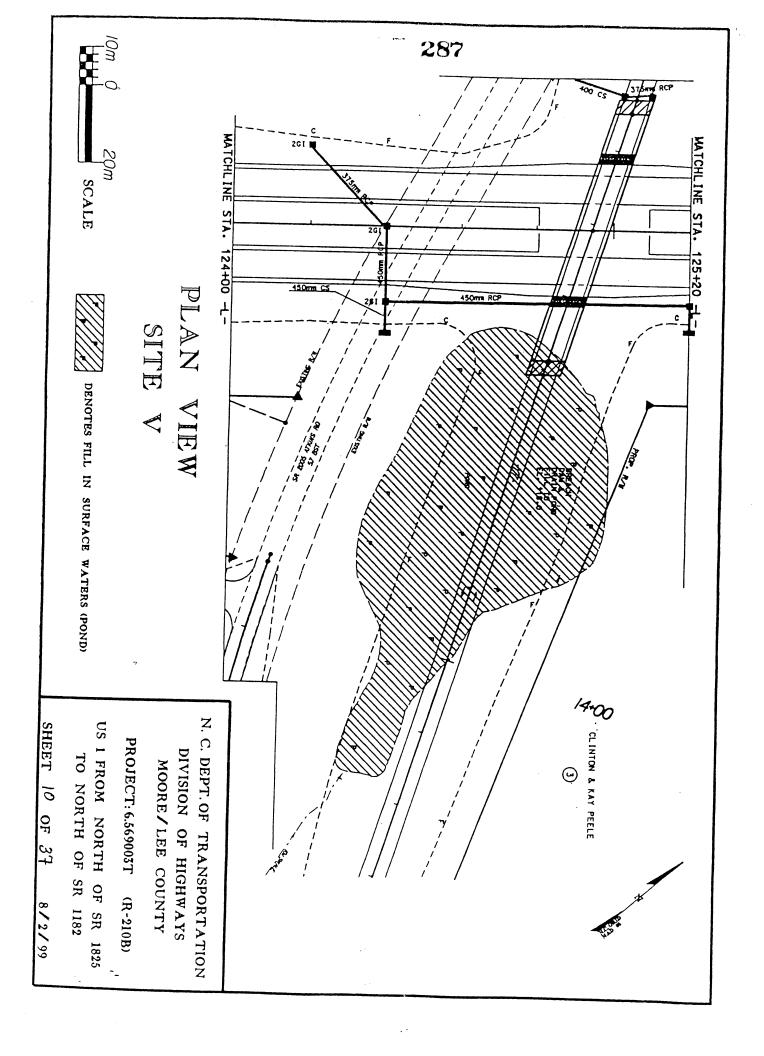
SHEET 4 OF 37

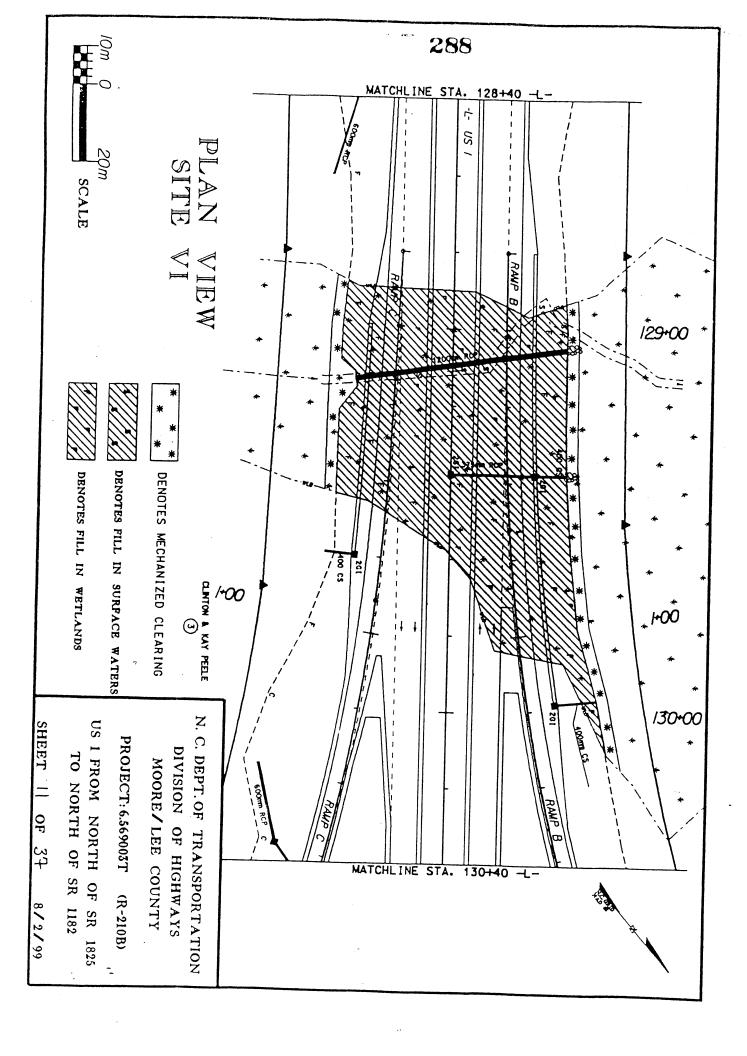
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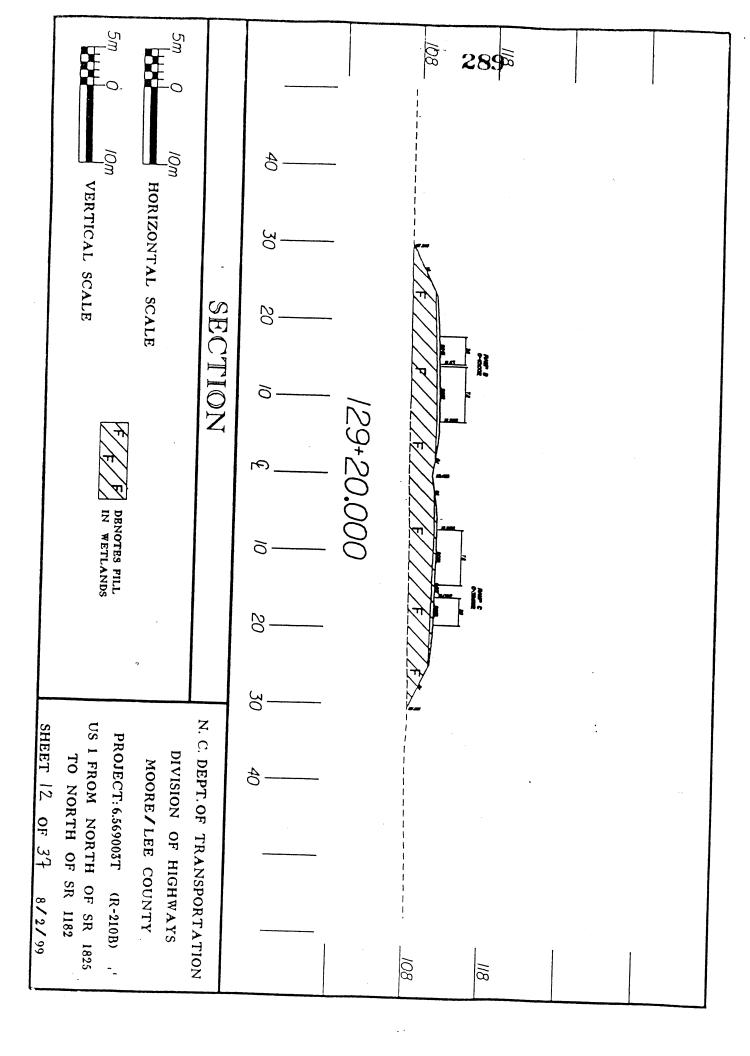


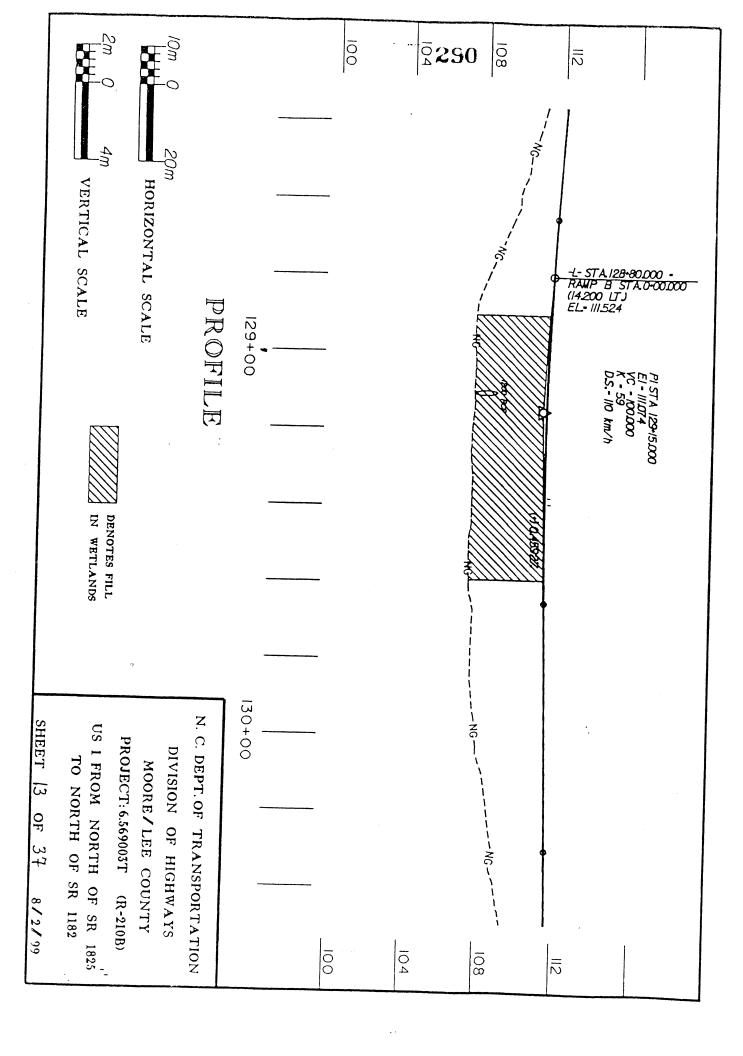


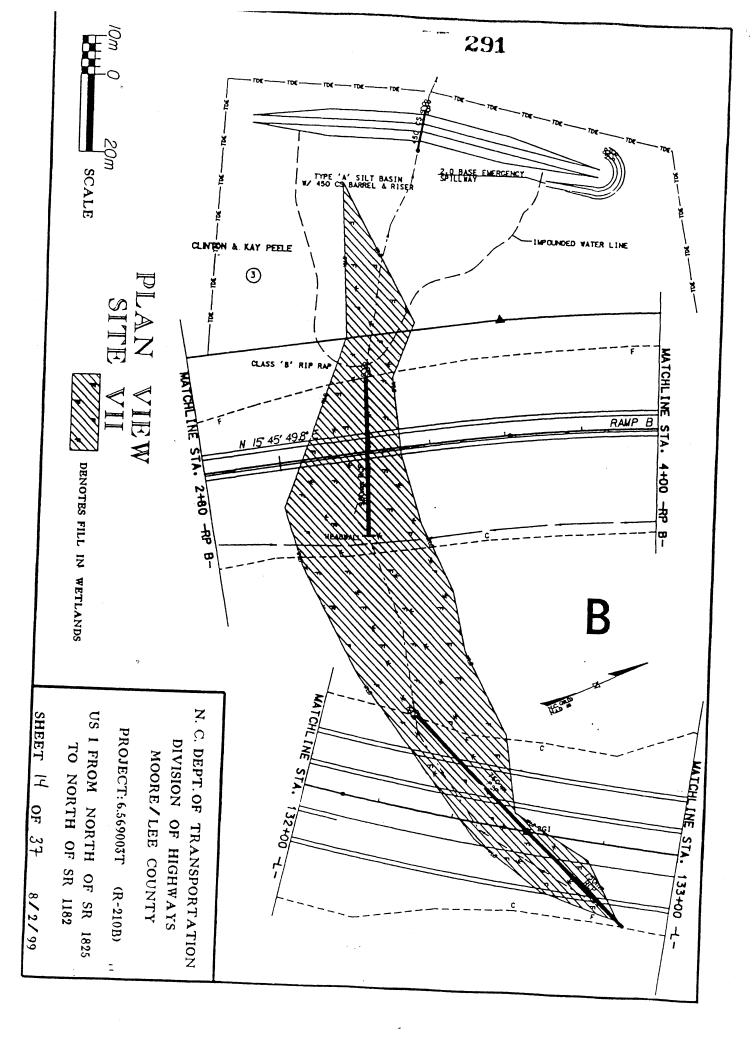


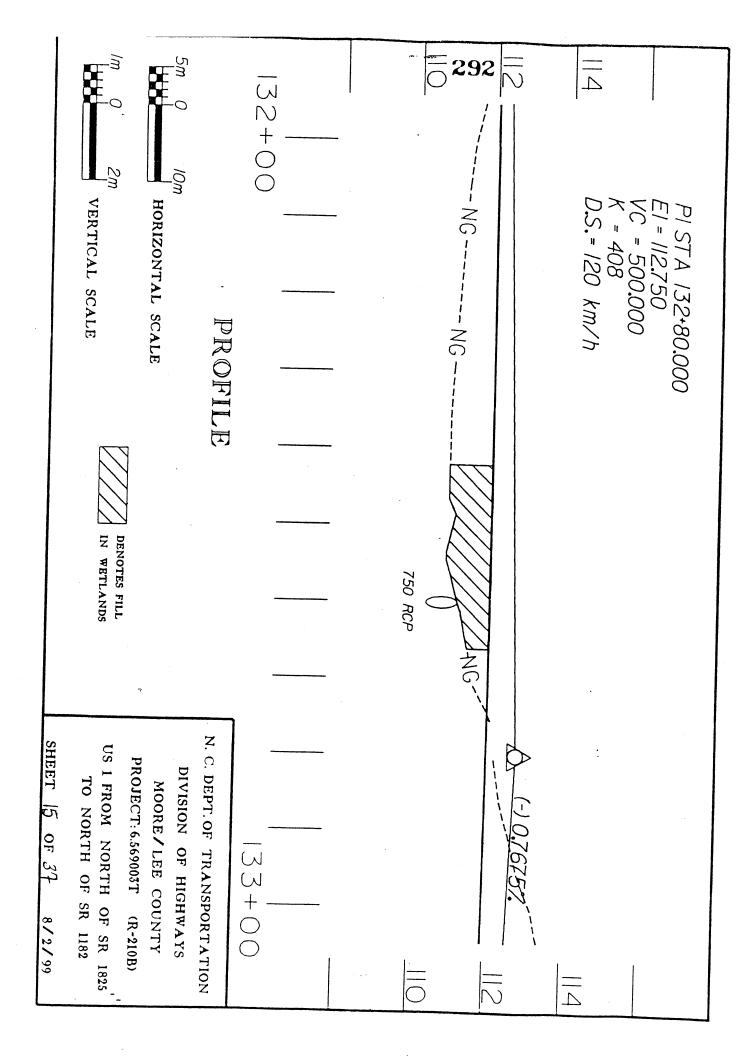


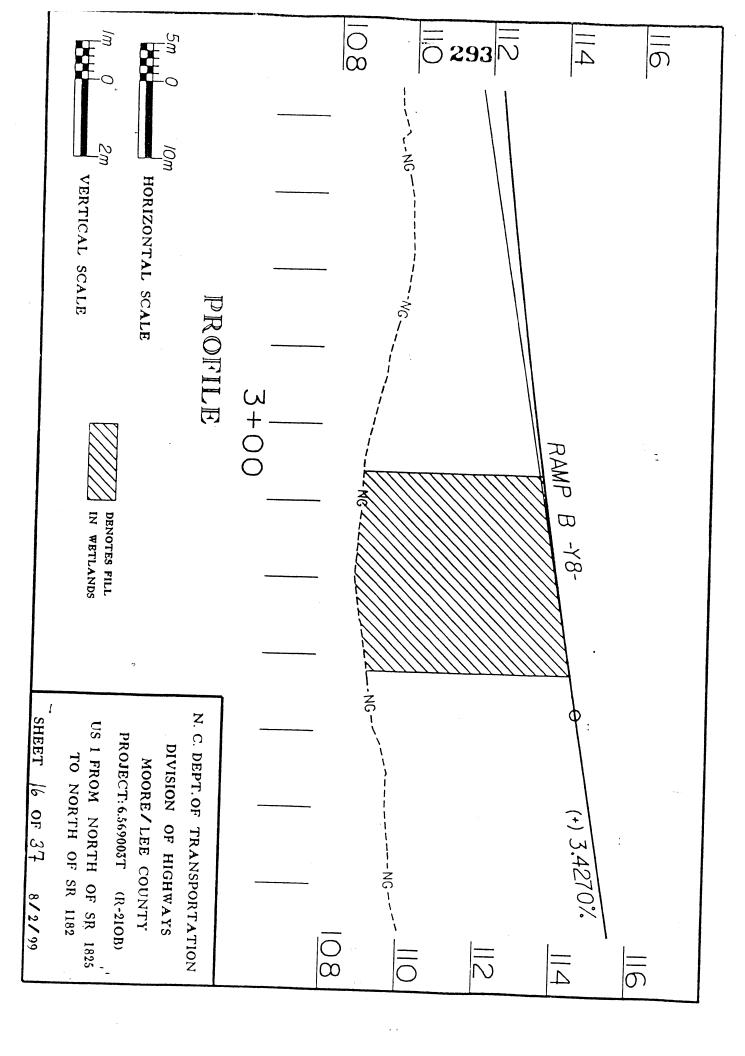


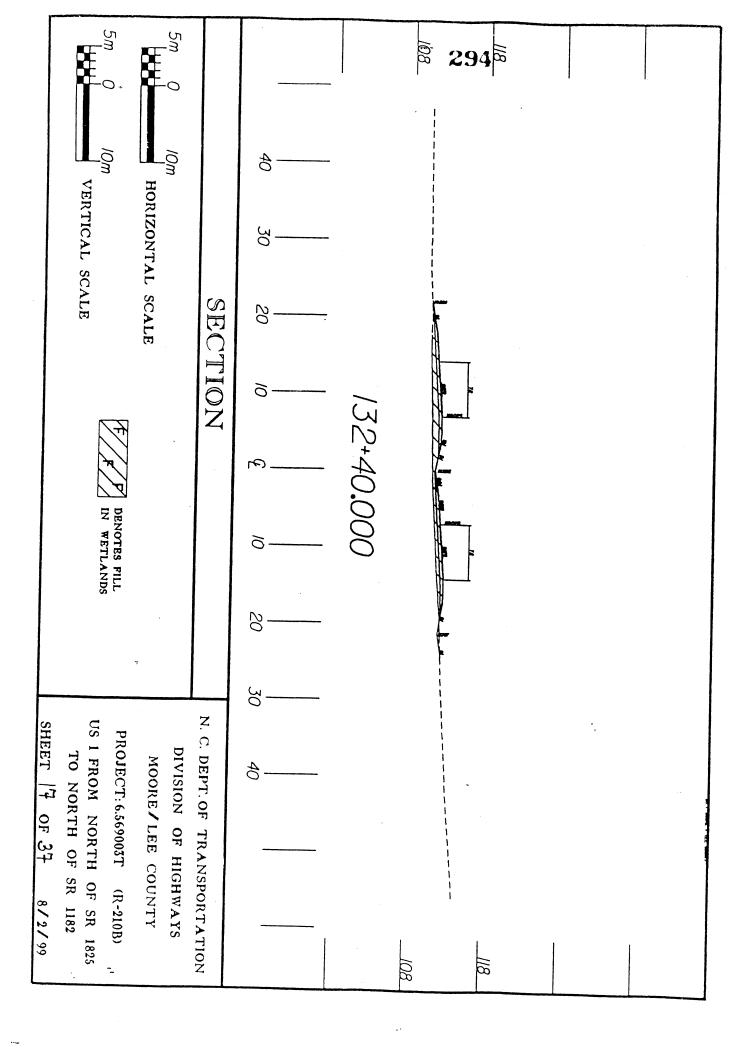


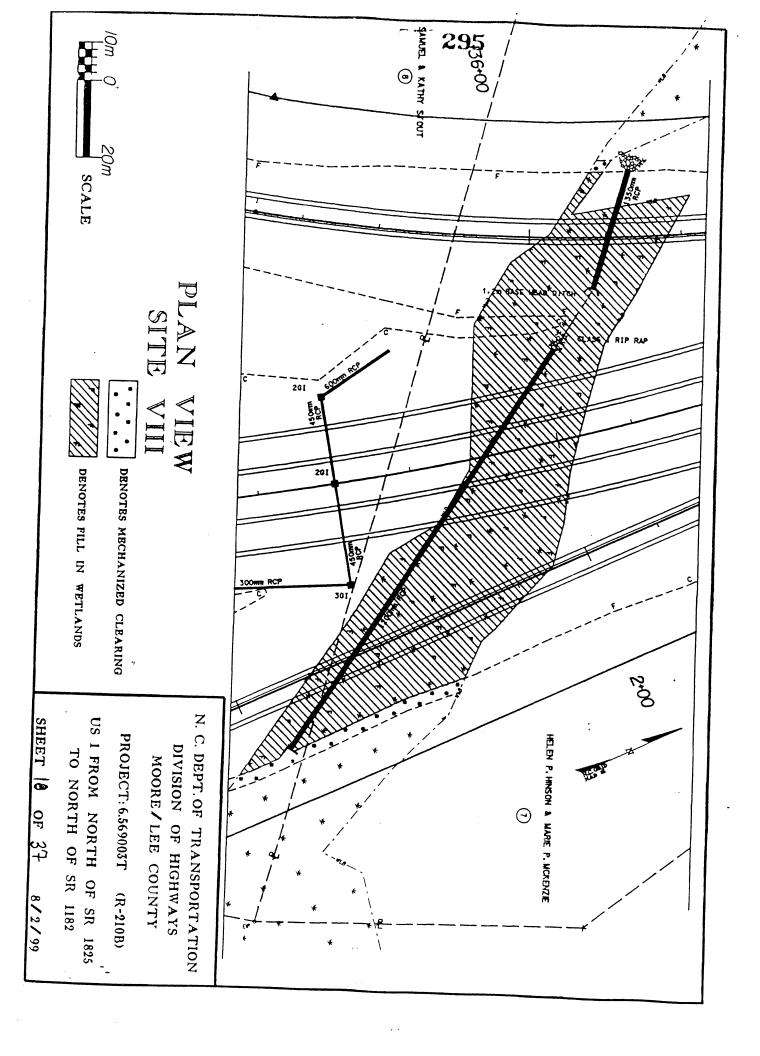


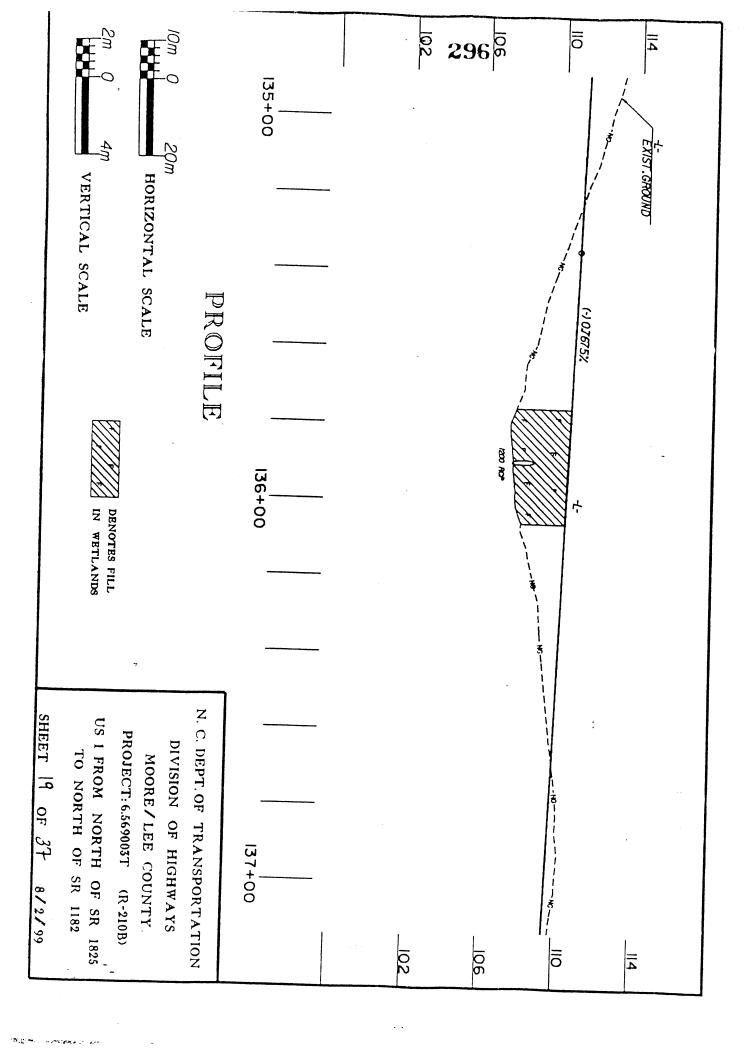


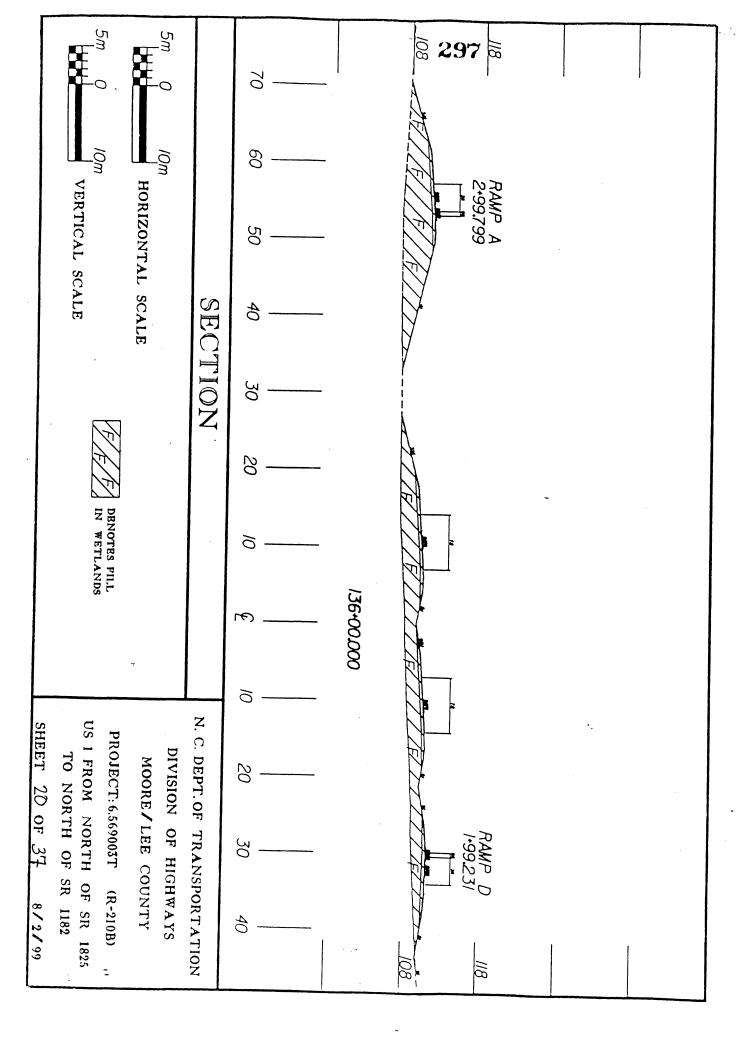


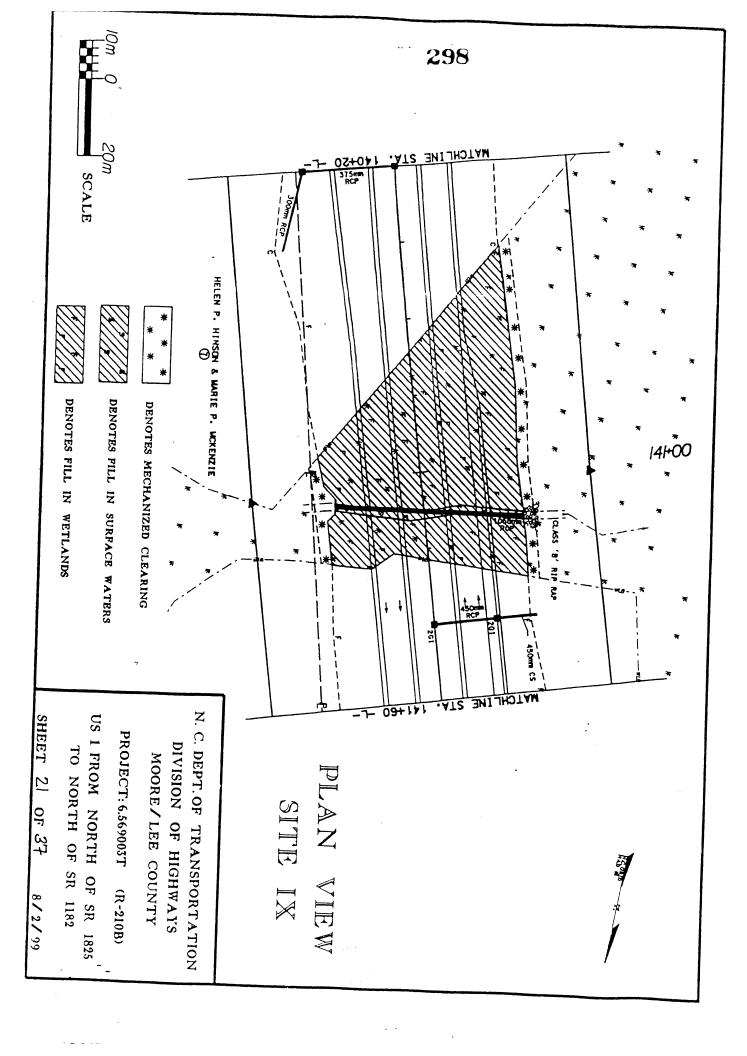


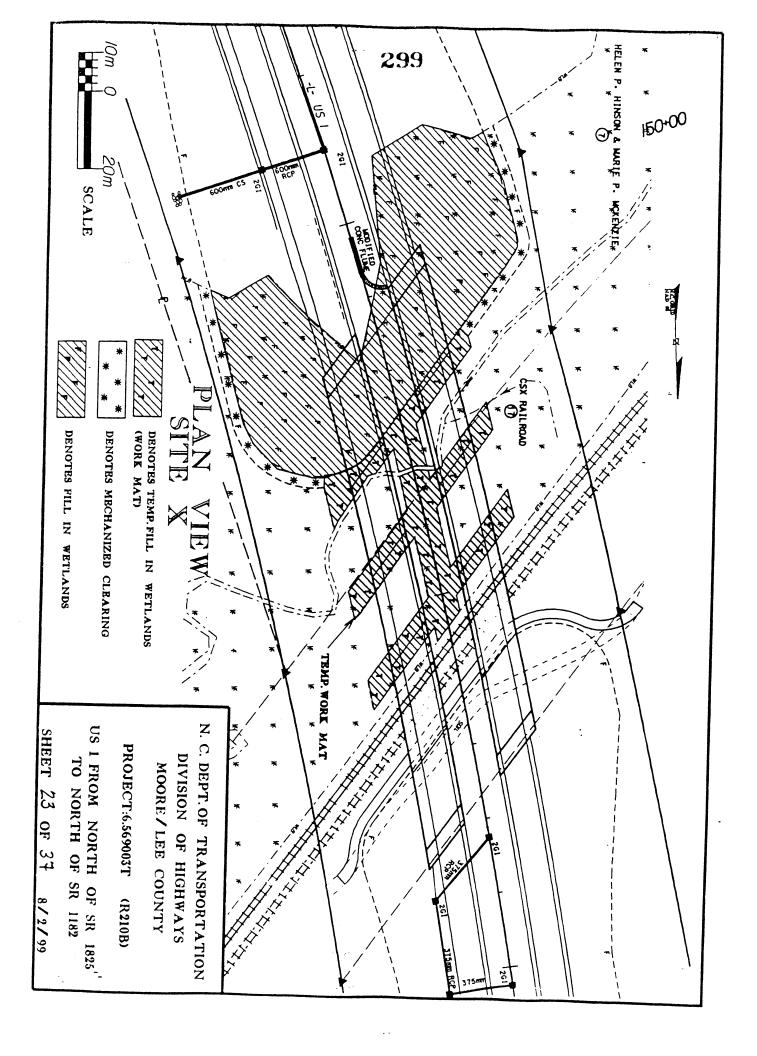


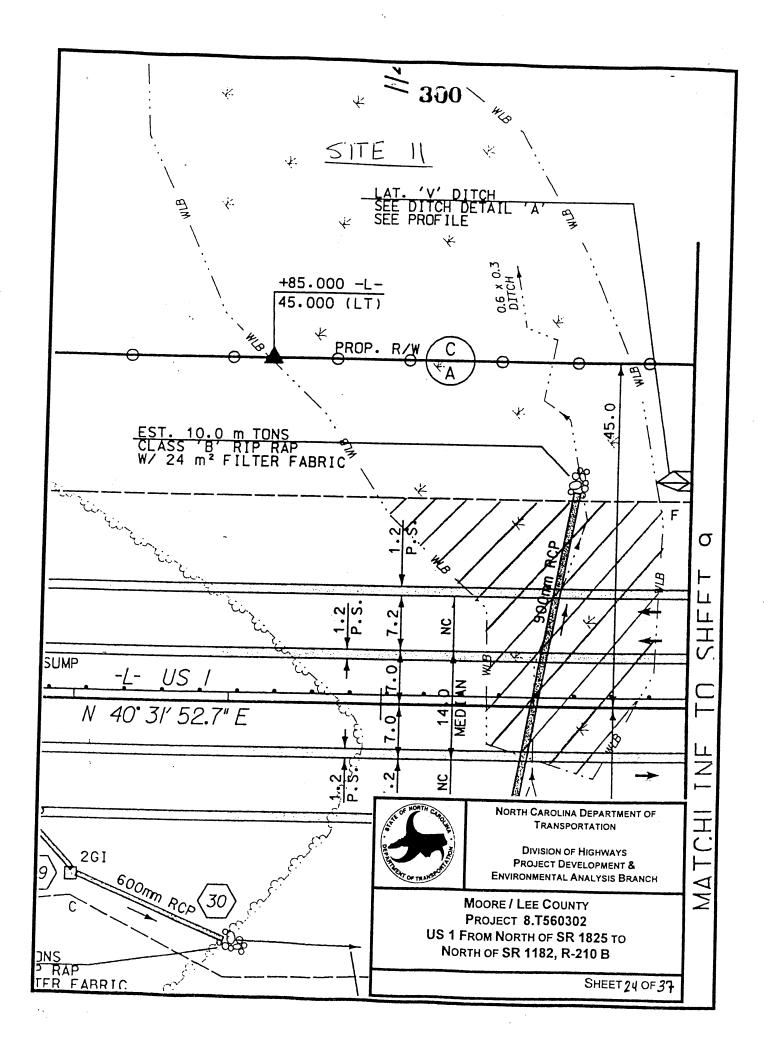


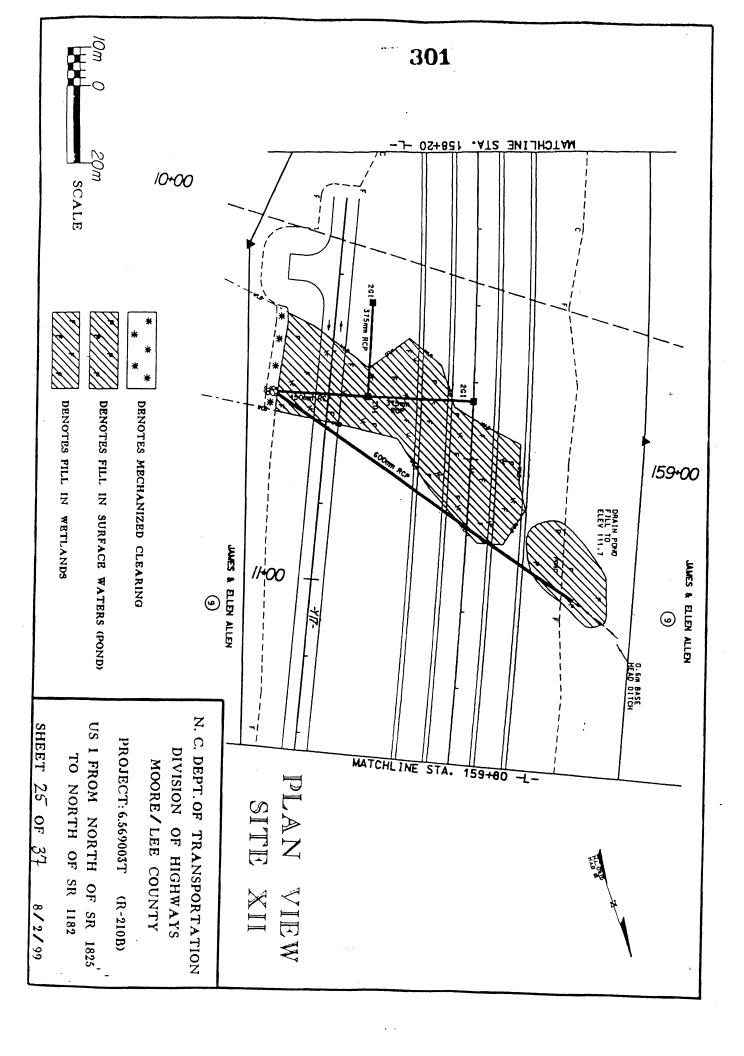


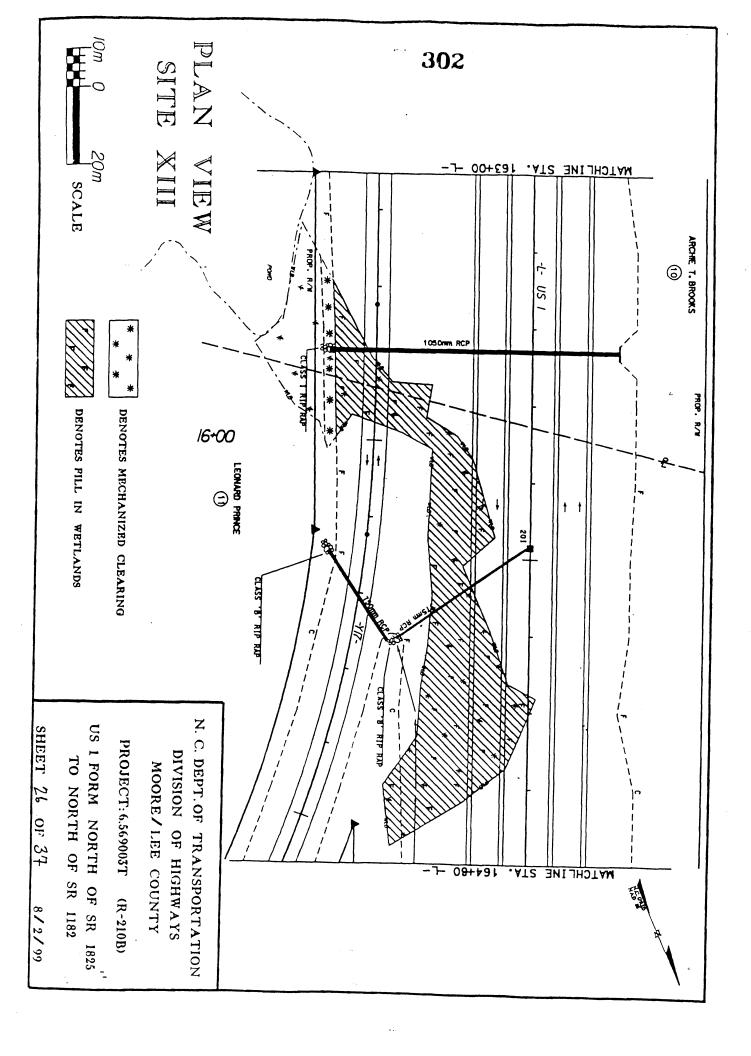


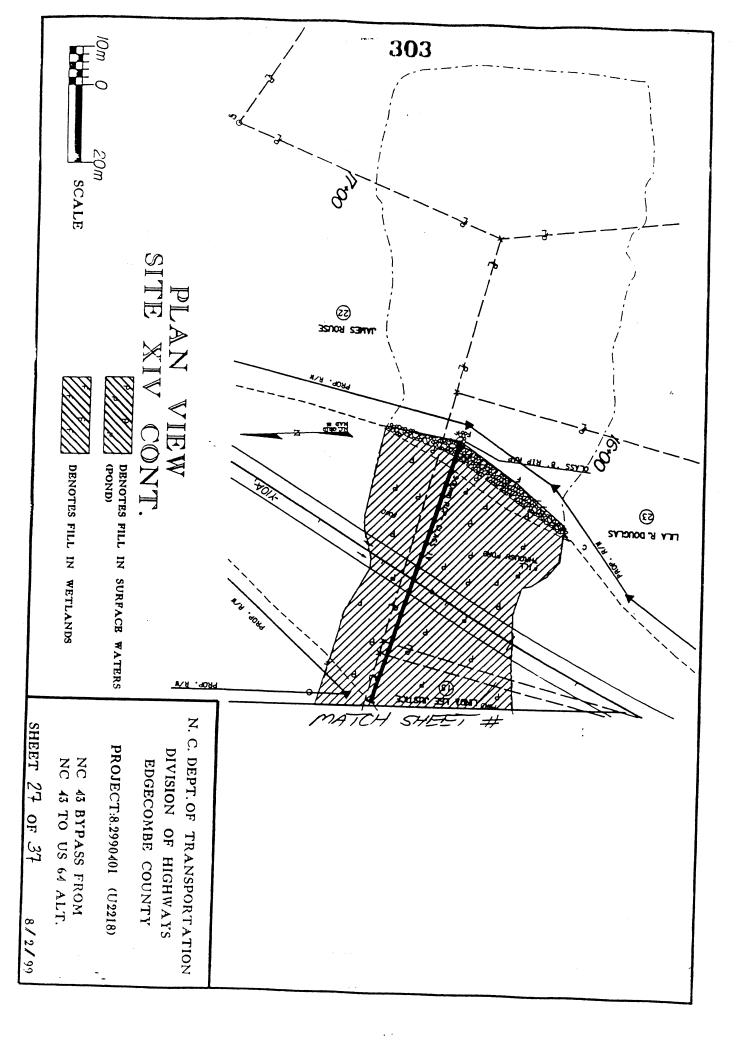


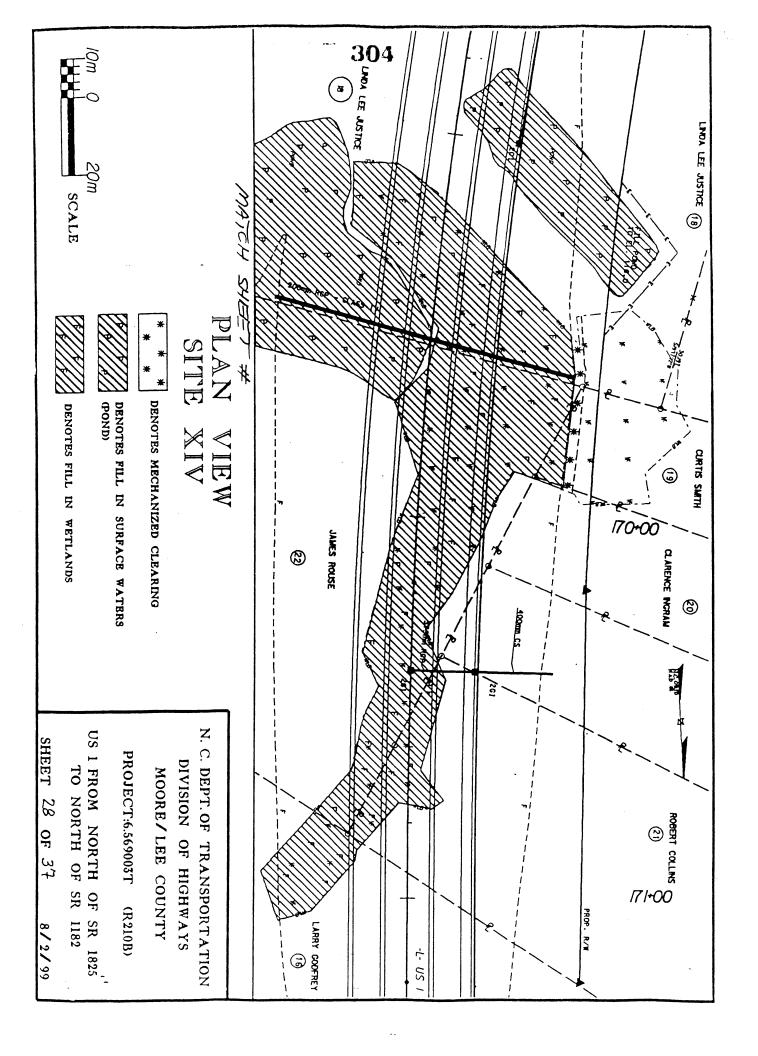


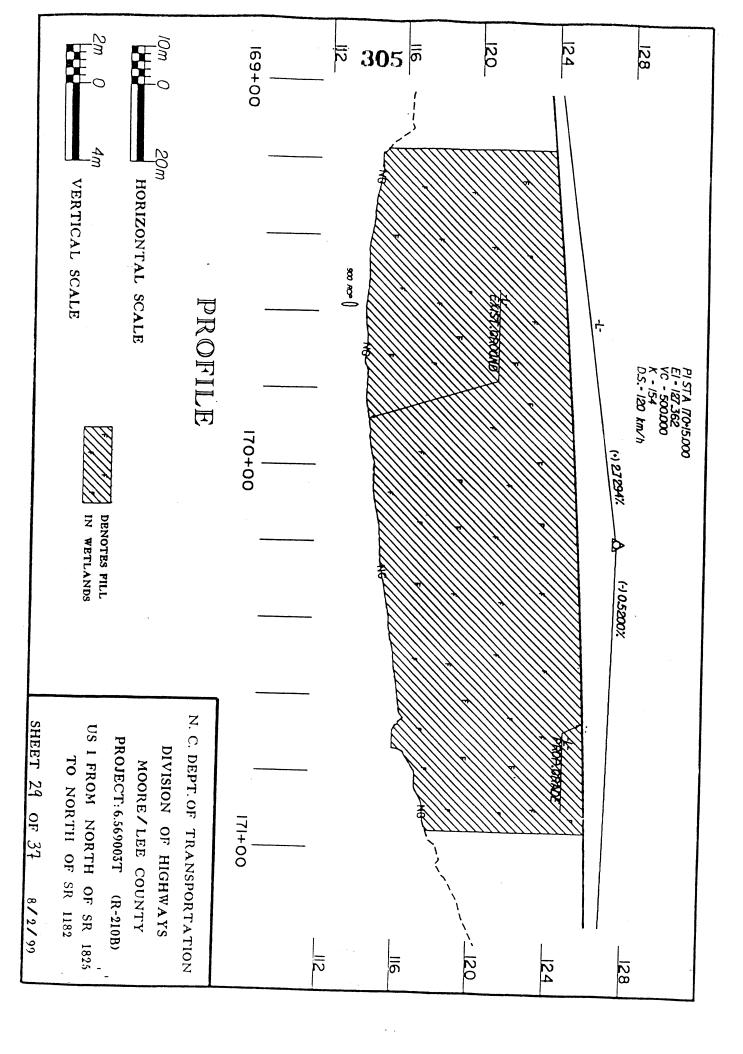


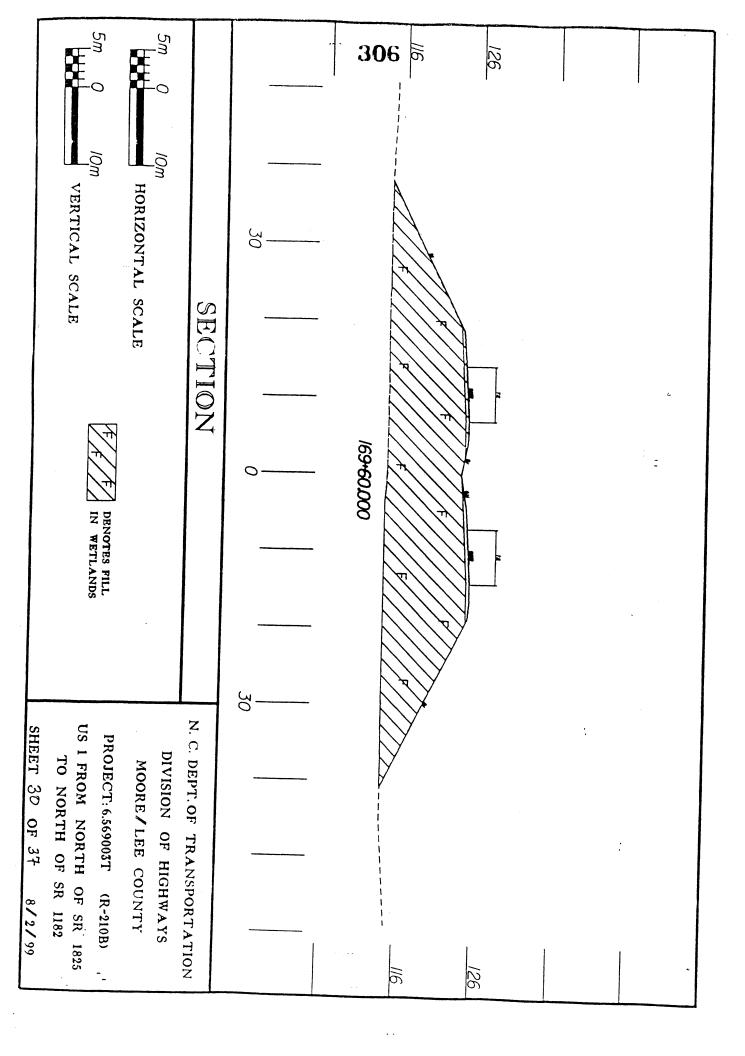


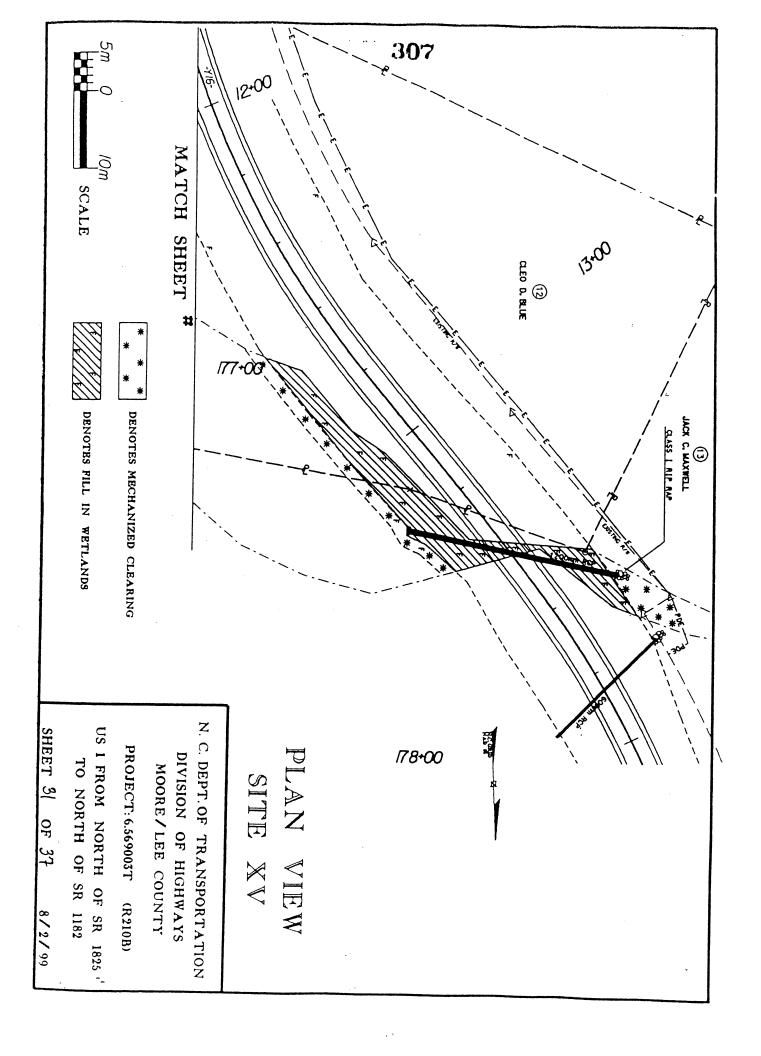


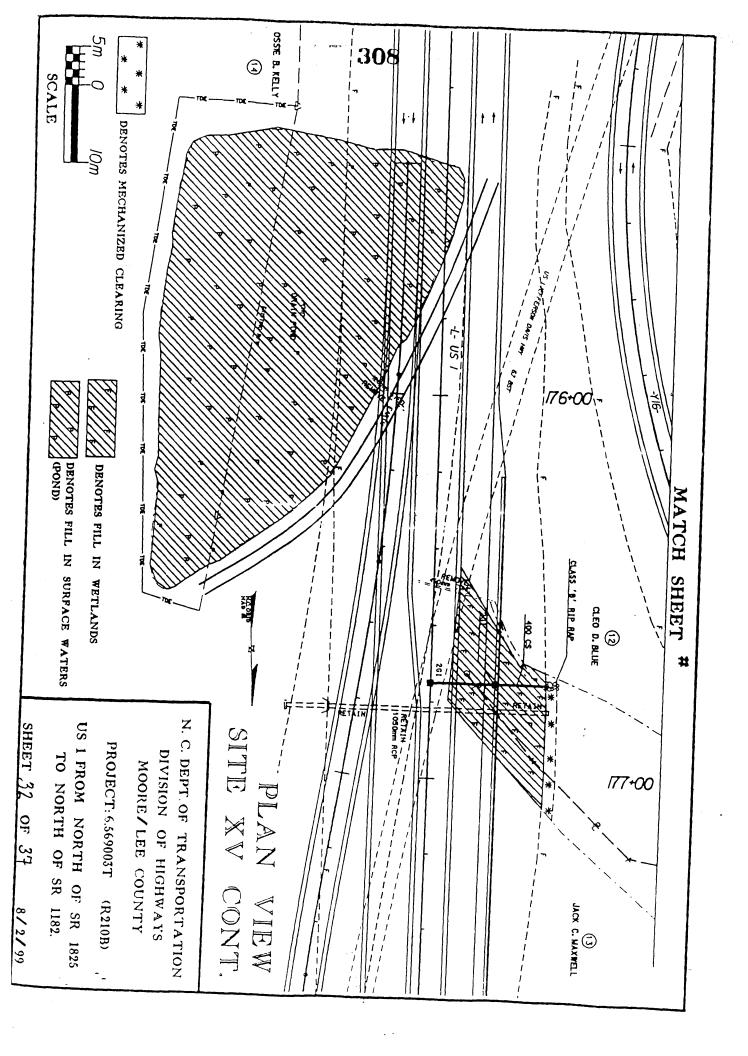


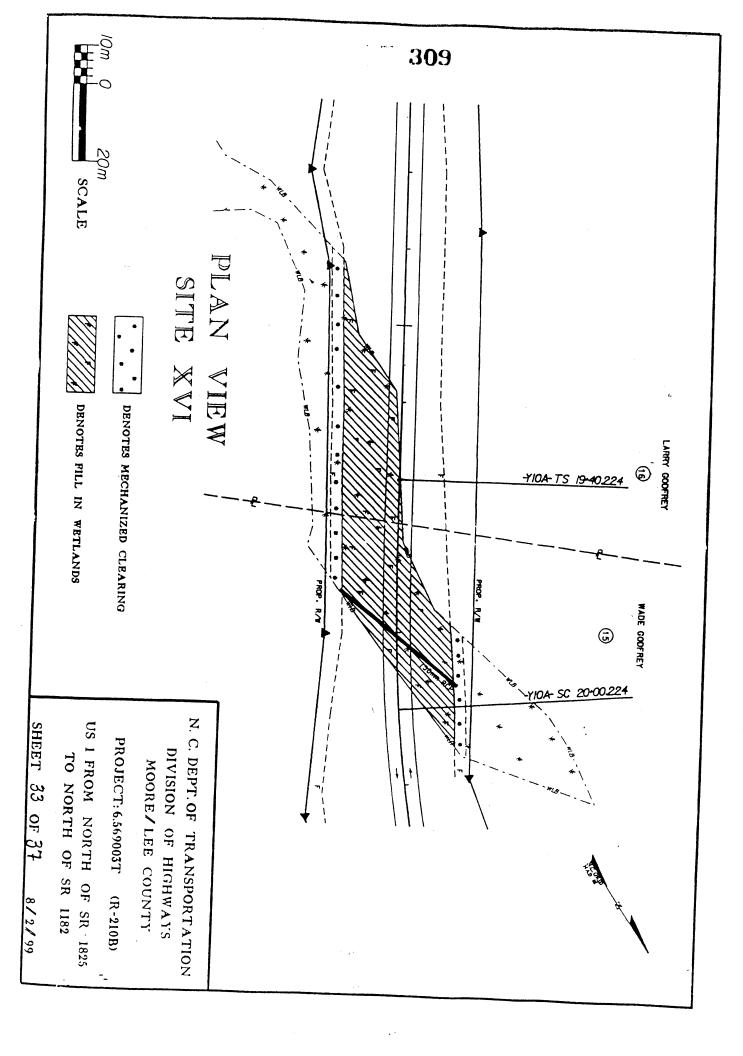


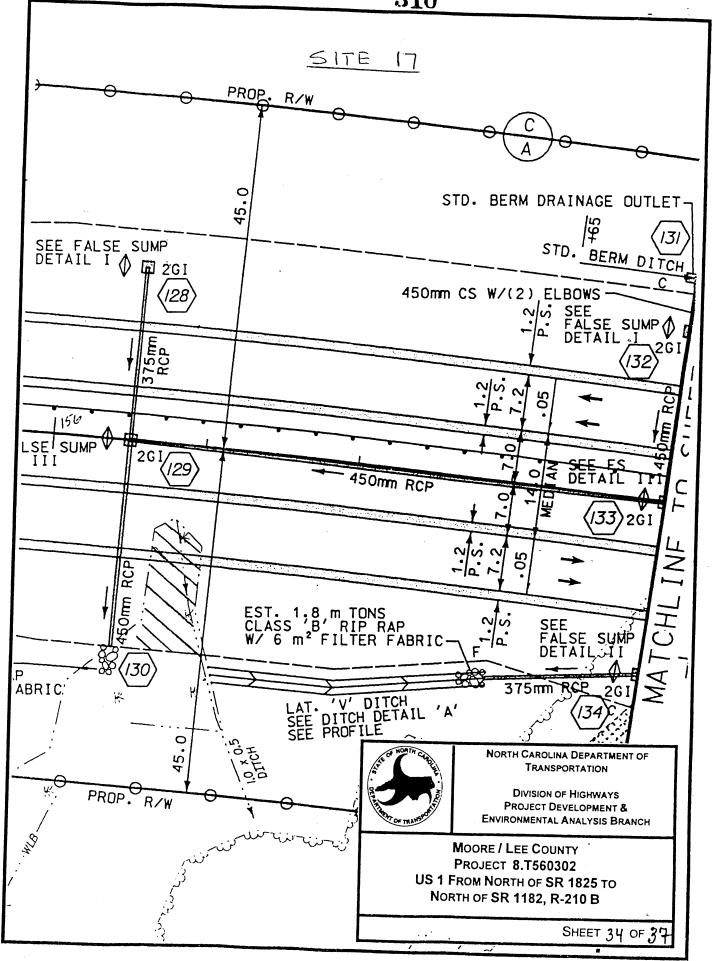




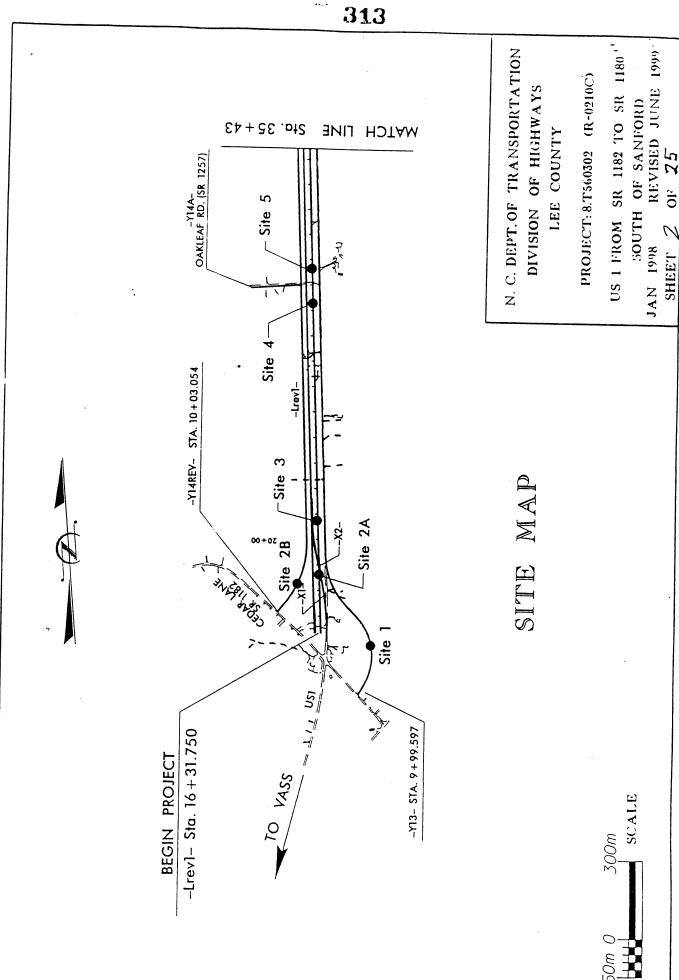


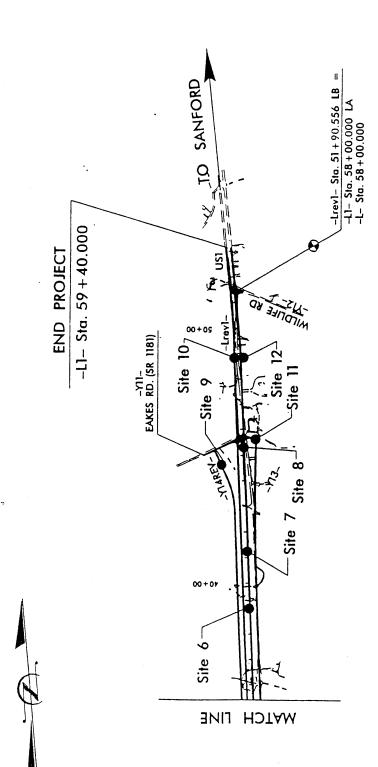






		Fuclosed	Channel	Œ)					57.0	2		0											107.0				3 1182	
		Relocated	Channel	ÎII)					,														0.0	ORTATION WAYS	! :		ORTH OF SF	
	ACTS	Existing Channel	_						65.0			51.0											116.0	DEPT. OF TRANSPORTAT DIVISION OF HIGHWAYS			:10B) R 1825 TO N	
	SURFACE WATER IMPACTS	Temp. Impact	To SW	100	1 470	2																	1.470	N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS		: COUNTY	PROJECT: 6.569003T (R210B) US 1 FROM NORTH OF SR 1825 TO NORTH OF SR 1182	
	SURFACE	Fill In SW		0.530	0.330		0.050	0.440	0.014			0.010			0.037		0.636	0.642					2.729			MOORE/LEE COUNTY	PROJECT: 6 US 1 FROM 1	
>		Fill In SW	(Natural)																				0000	L				0/0/0
SUMMARY	S	Mechanized Clearing	(Ha)	0003	0.132	0.019	0.011		0.055		0.021	0.037	0.056	0.003	0.008	0.014	0.011	0.049		0.035	0.011		0.465				`);/
IMPACT 8	WETLAND IMPACTS	Excavation	In Wetlands (Ha)																				0.000					
7	WETL	Temp. Fill	In Wetlands (Ha)										0.131										0.131					
		Fill 7	Wetlands (Ha)	0.018	0.093	0.182	0.157		0.454	0.431	0.488	0.286	0.351	0.029	0.167	0.237	0.506	0.157	. *	0.158	0.083		3.797					
		Structure	Size	600 RCP	1350 RCP	600 RCP	600 RCP	•	1200 RCP	750900 RCP	1200 RCP	1050 RCP	BRIDGE	•	600 RCP	1050 RCP	900 RCP	1200 RCP	1050 RCP	750 RCP	900 RCP					-		
		Station	(From/To)	+\- 100+30 -L-	+\- 103+60 -L-	+\- 117+80 -L-	+\- 121+20 -L-	+\- 13+60-Y7-	+\- 129+20 -L-	+\- 132+40 -L-	+/- 136+00 -L-	+\- 141+00 -L-	+\- 150+40 -L-	+/- 155+60 -L-	+\- 159+00 -L-	+/- 164+00 -L-	+/- 169+80 -L-	+\- 13+00 -Y16-	+\-176+40 -L-	+\- 19+80 -Y10A	+/- 114+20-L-							
		Site	o N	1	2	3	4	2	9	1	8	5 5	2		12	13	\top	5			17	\parallel	IOTALS:					





N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
LEE COUNTY

PROJECT: 8.T560302 (R-0210C)

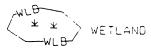
US I FROM SR 1182 TO SR 1180'
SOUTH OF SANFORD
JAN 1998 REVISED JUNE 25 1959
SHEET 3 OF 25

SITE MAP









DENOTES FILL IN WETLAND

DENOTES FILL IN SURFACE WATER

DENOTES FILL IN SURFACE WATER (POND)

DENOTES TEMPORARY
FILL IN WETLAND

DENOTES EXCAVATION IN WETLAND

DENOTES TEMPORARY
FILL IN SURFACE
WATER

DENOTES MECHANIZED CLEARING

- DITCH
- FLOW DIRECTION

TOP OF BANK

- — WE- — EDGE OF WATER - — C_ — PROP.LIMIT-OF CUT

- - F - PROP. LIMIT OF FILL

PROP. RIGHT OF WAY

— — NG — — NATURAL GROUND

- - PL- - PROPERTY LINE

----E --- TEMP. CONSTRUCTION EASEMENT

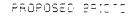
- TDE - TEMP. DRAINAGE EASEMENT

--- PDE ---- PERMANENT DRAINAGE EASEMENT

- EAB - EXIST. ENDANGERED ANIMAL BOUNDARY

- EPB - EXIST. ENDANGERED PLANT BOUNDARY

 \bot . ∇ .. water surface



PROPOSED BOY DULVERT

PROPOSED PIPE EULVERT

(DASHED LINES DENOTE EXISTNG STRUCTURES)

PIPES 54 PIPES & ABOVE

SINGLE TREE

WOODS LINE

DRAINAGE INLET



ROOTWAD



RIP RAP



ADJACENT PROPERTY OWNER OR PARCEL NUMBER IF AVAILABLE

 X $_{X}$ X $_{X}$ X LIVE STAKES

BOULDER

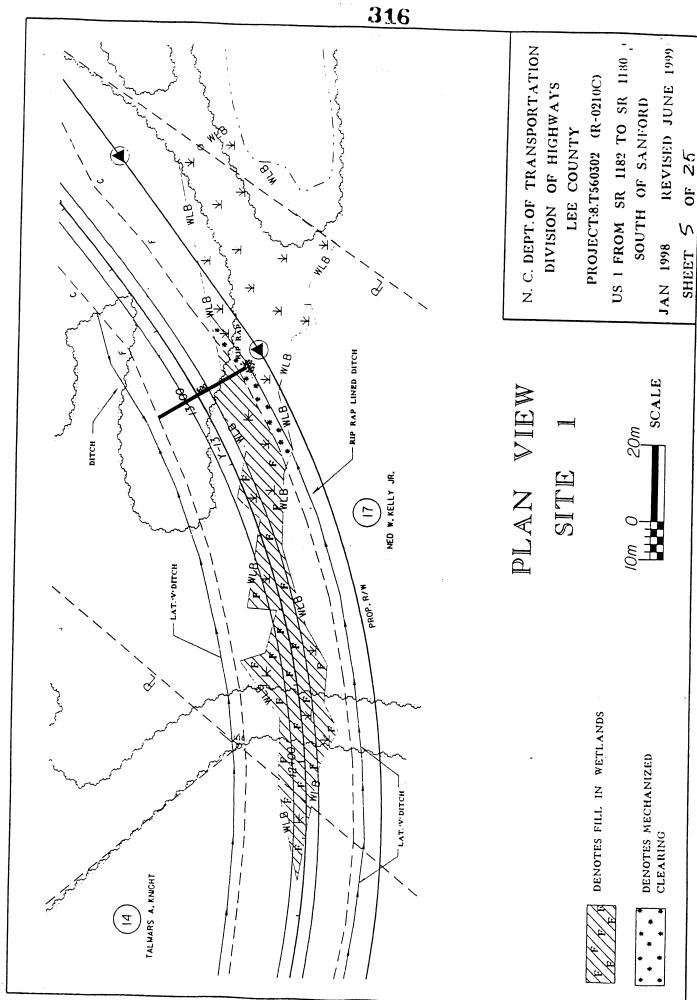
- COIR FIBER ROLLS

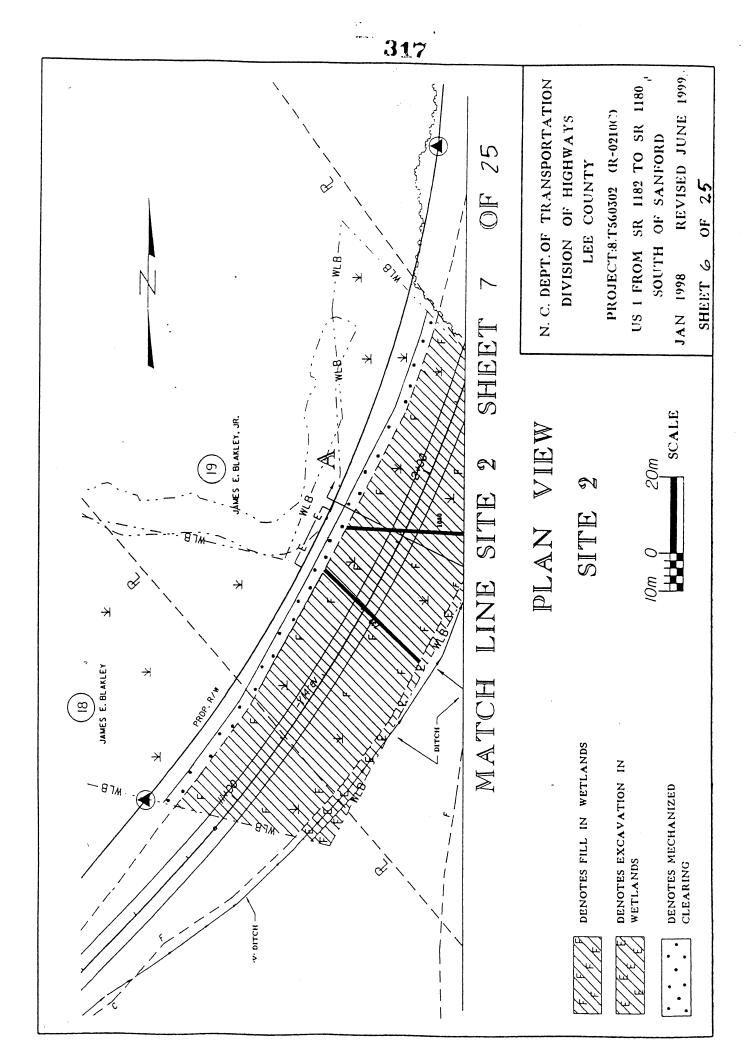
N. C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS

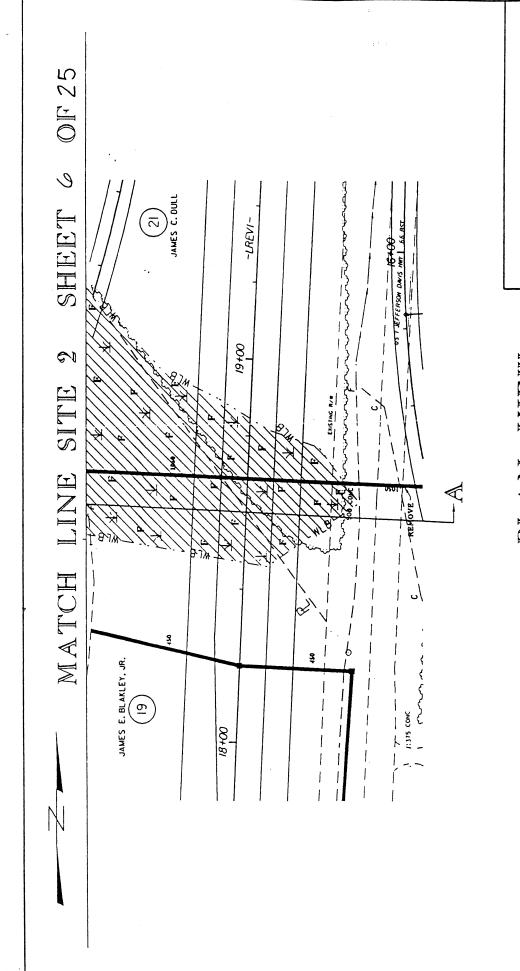
LEE COUNTY
PROJECT: 8.T560302 (R-0210C)

US 1 FROM SR 1182 TO SR 1180 SOUTH OF SANFORD

JAN 1998 REVISED JUNE 1999 SHEET 4 OF 25







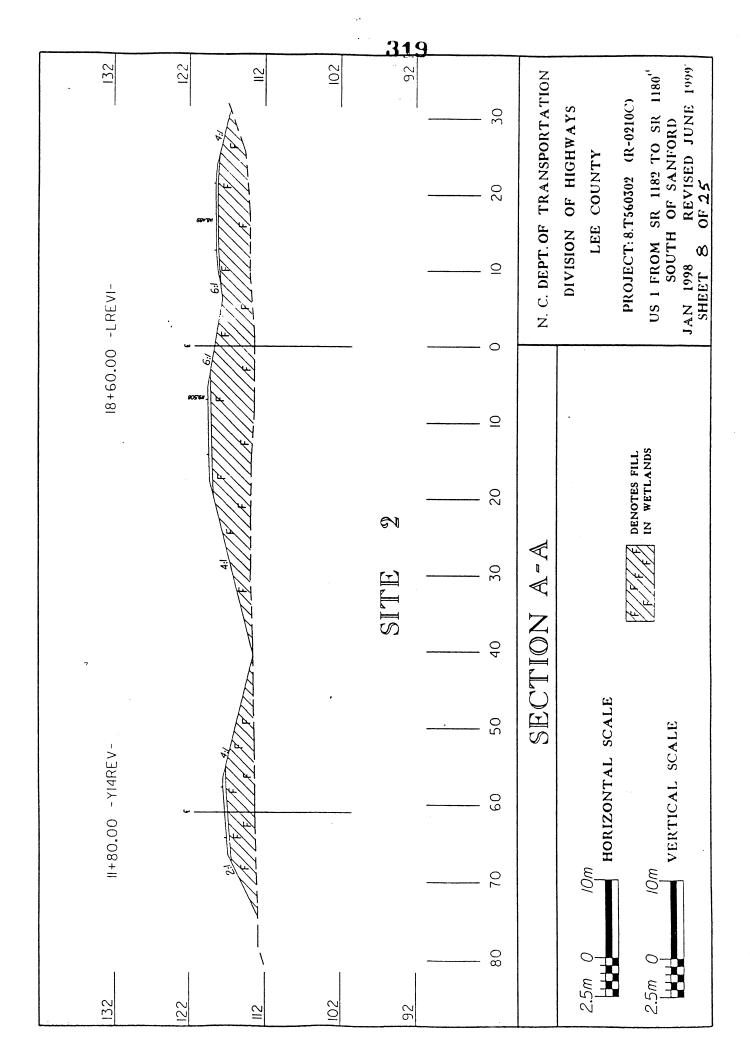
REVISED JUNE 1999 US 1 FROM SR 1182 TO SR 1180 --N. C. DEPT. OF TRANSPORTATION PROJECT:8.T560502 (R-0210C) DIVISION OF HIGHWAYS SOUTH OF SANFORD LEE COUNTY OF 75 SHEFT 7 JAN 1998

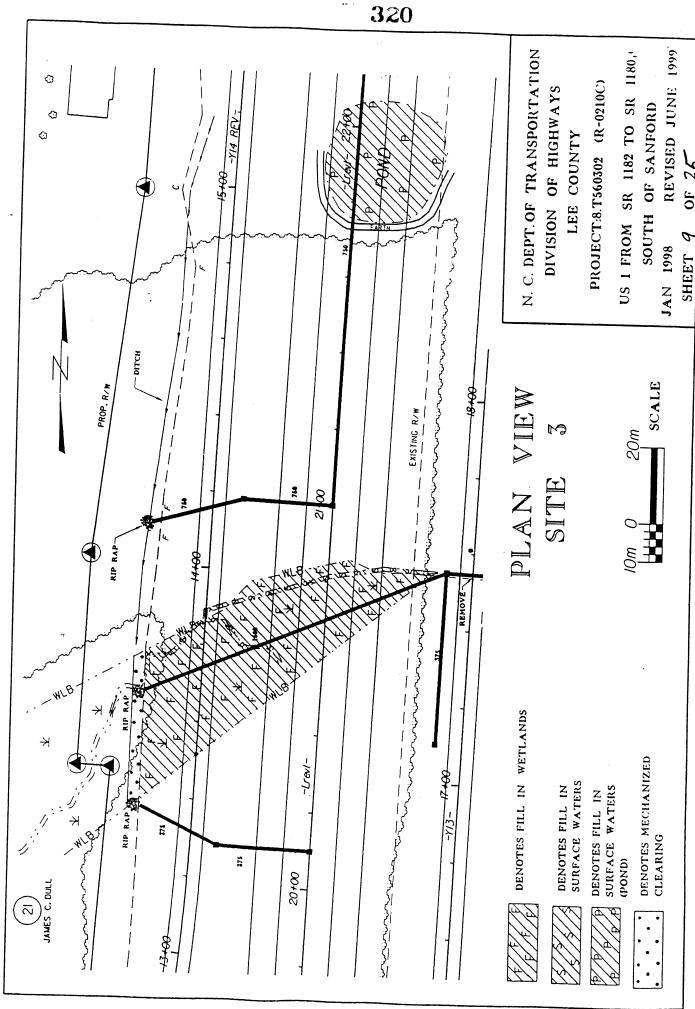
PLAN VIEW SITE

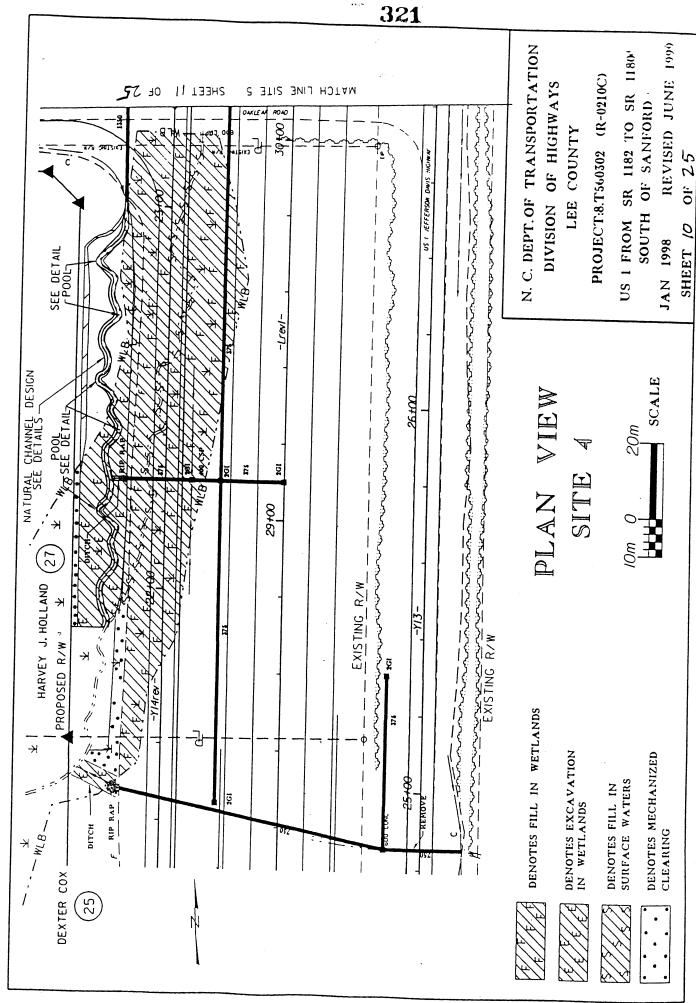


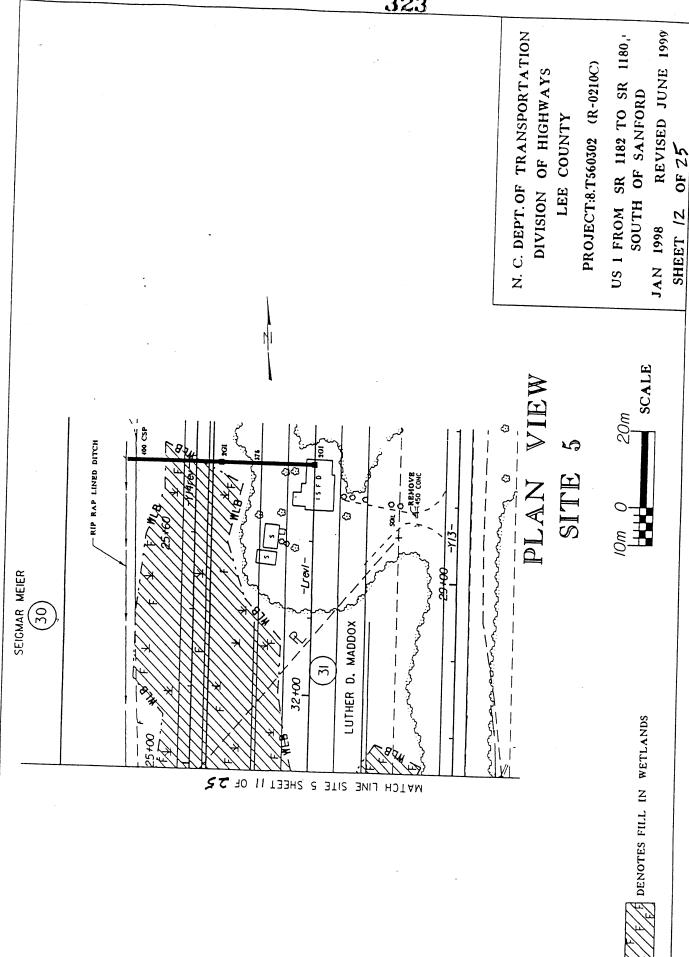


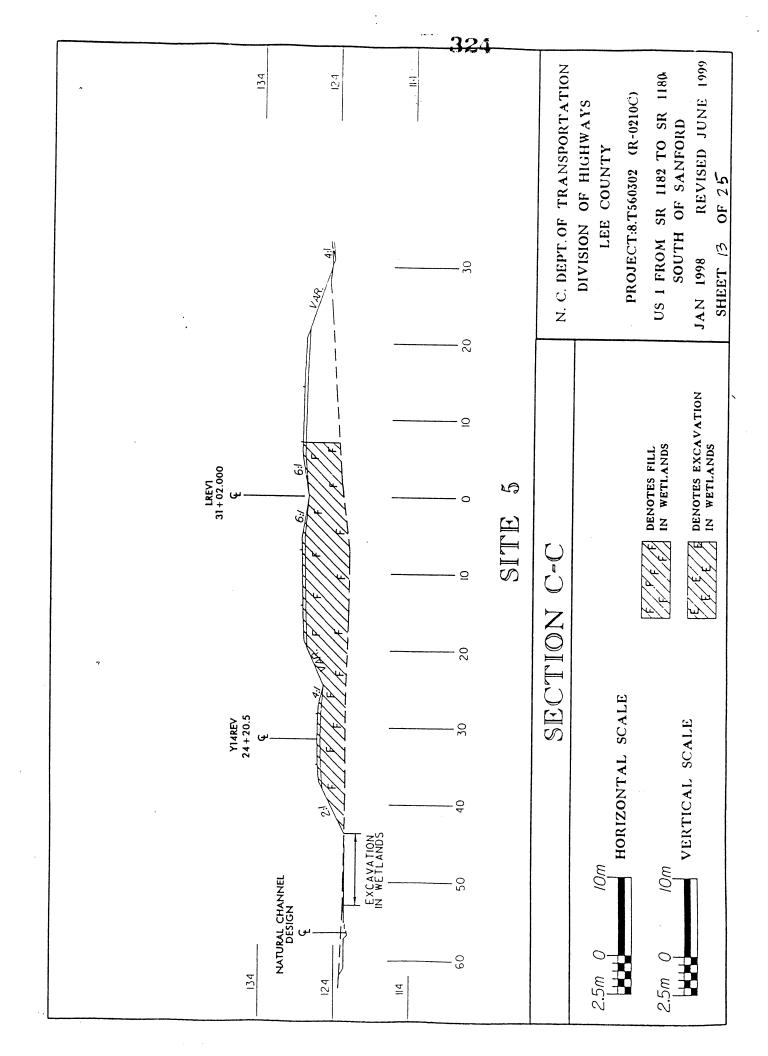
SCALE







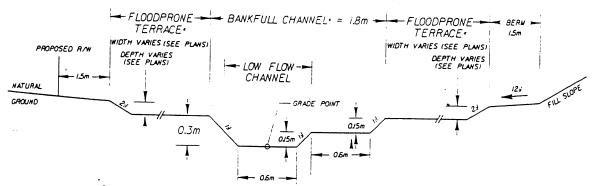




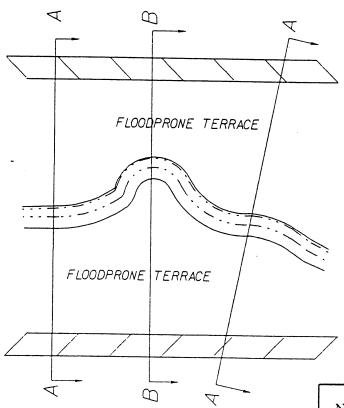


RIFFLE SECTION (A-A)

(Not to Scale)



• - NOTE: STABILIZE BANKFULL CHANNEL BANKS
AND FLOODPRONE TERRACE WITH
SODDING AND NATIVE VEGETATION.
BED MATERIAL OF LOW FLOW CHANNEL
SHALL CONSIST OF NATIVE SOILS.



A-A: RIFFLE SECTION

B-B: POOL SECTION

(Not to Scale)

SITES 4 & 5 NATURAL CHANNEL DESIGN DETAILS N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
LEE COUNTY

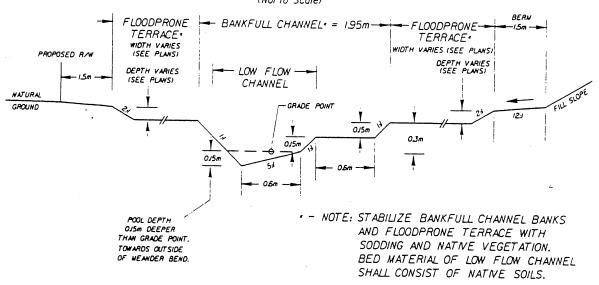
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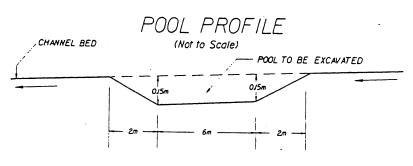
US 1 FROM SR 1182 TO SR 1180 SOUTH OF SANFORD

JAN 1998 REVISED JUNE 1999 SHEET 14 OF 25

POOL SECTION (B-B)

(Not to Scale)





SEE PLAN VIEW FOR POOL SPACING

SITES 4 & 5 NATURAL CHANNEL DESIGN DETAILS

N. C. DEPT.OF TRANSPORTATION
DIVISION OF HIGHWAYS
LEE COUNTY

PROJECT:8.T560302 (R-0210C)

US 1 FROM SR 1182 TO SR 1180 SOUTH OF SANFORD

JAN 1998 REVISED JUNE 1999 SHEET 15 OF 2 \$\mathbf{S}\$

ITEM	EXISTING* STREAM	REFERENCE STREAM	PROPOSED RELOCATION
STREAM NAME	Tributary to Little Crane Creek	Tributary to Little Crane Creek	Tributary to Little Crane Creek
DRAINAGE AREA (DA)	76 ha	76 ha	76 ha
CHANNEL SLOPE (S)	1.1%	1.1%	0.9%
BANKFUL WIDTH (Worf)	1.7m - VAR.	1.7m	1.8m
MEAN DEPTH (dbkf)	0.2m	0.2m	0.18m
BANKFUL X-SECTION AREA (Abkf) WIDTH/DEPTH RATIO	0.33m²- VAR.	0.33m²	0.36m²
(W bkf/d bkf)	8.5 - VAR.	8.5	10
Maximum DEPTH (d mbkf)	0.3lm	0.3lm	0.3m
WIDTH Flood-Prone Area	45m	45m	15m
ENTRENCHMENT RATIO (ER)	26.5 - VAR.	26.5	8.3
CHANNEL MATERIALS: D50	sand	sand	sand
SINUOSITY (K)	I.I - VAR.	1.1	1.2
MEANDERS:			
AVG. LENGTH	VAR.	13.8m	14.0m
AVG. AMPLITUDE	VAR.	2.6m	2.6m
AVG. RADIUS	VAR.	5.lm	5.0m
DISCHARGES:			
O BANKFULL	0.2 cms	0.2 cms	0.3 cms
02	I.7 cms	I.7 cms	l.7 cms
010	3.1 cms	3.1 cms	3.1 cms
VELOCITY:			
V BANKFULL	0.56 m/s	0.56 m/s	0.35 m/s
V2	0.61m/s	0.61 m/s	0.80 m/s
VIO	0.71 m/s	0.71 m/s	1.01 m/s
CLASSIFICATION	D5/E5	E5	E5

^{* -} EXISTING STREAM IS BRAIDED THROUGH MOST OF ITS LENGTH, SOME DATA IS HIGHLY VARIABLE.

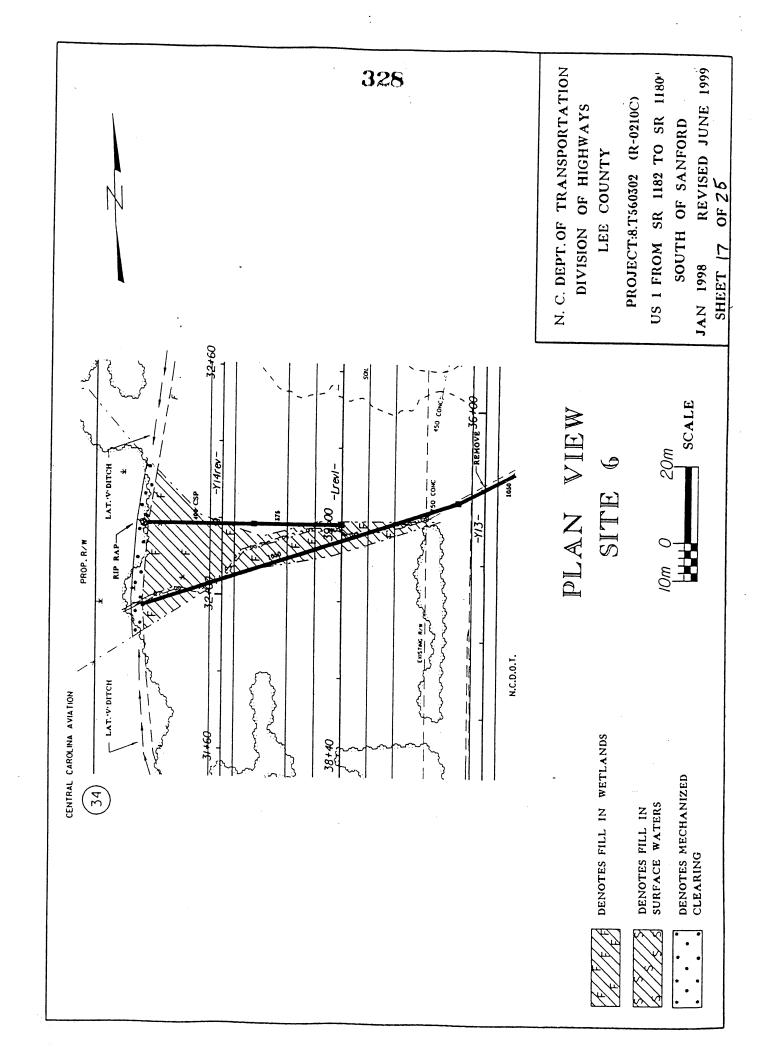
NATURAL CHANNEL
DESIGN DATA
SITES 4 & 5

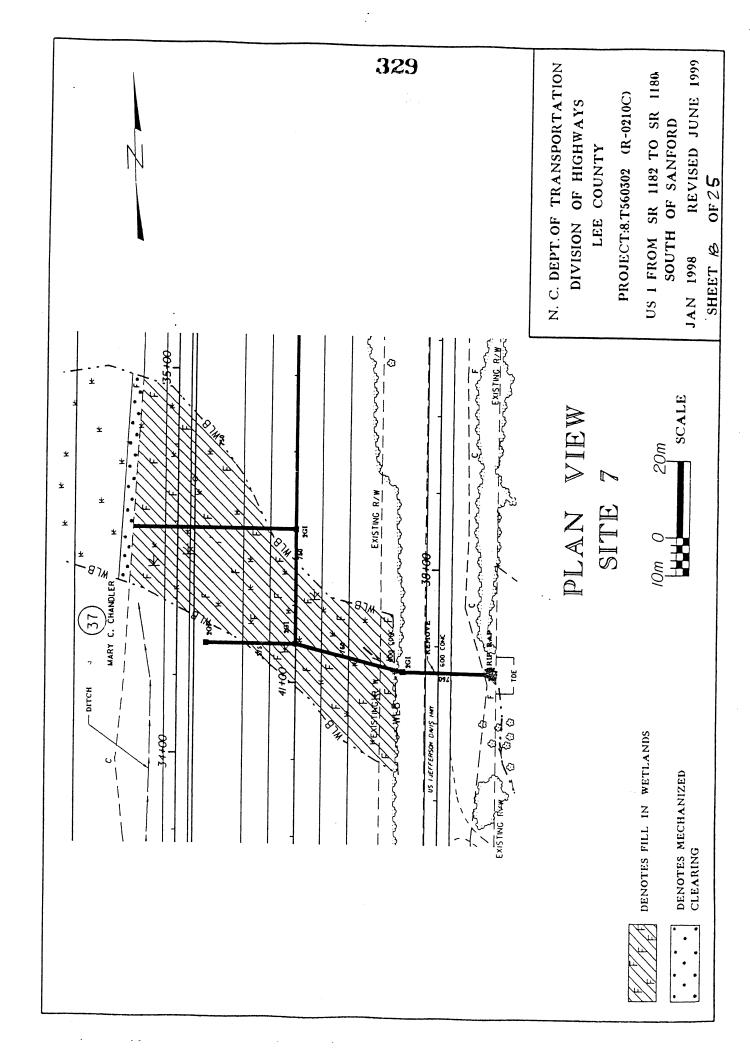
N. C. DEPT. OF TRANSPORTATION

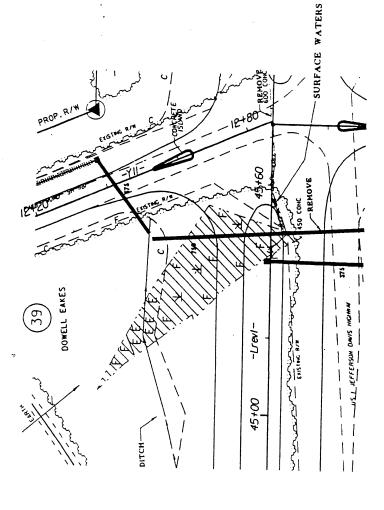
DIVISION OF HIGHWAYS LEE COUNTY PROJECT: 8.T560302

US 1 FROM SR 1182 TO SR 1180 SOUTH OF SANFORD

JAN 1998 REVISED JUNE 1999 SHEET 16 OF 25







N. C. DEPT. OF TRANSPORTATION US 1 FROM SR 1182 TO SR 1180. PROJECT:8.T560302 (R-0210C) DIVISION OF HIGHWAYS LEE COUNTY

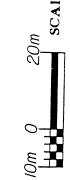
PLAN VIEW

DENOTES FILL IN WETLANDS

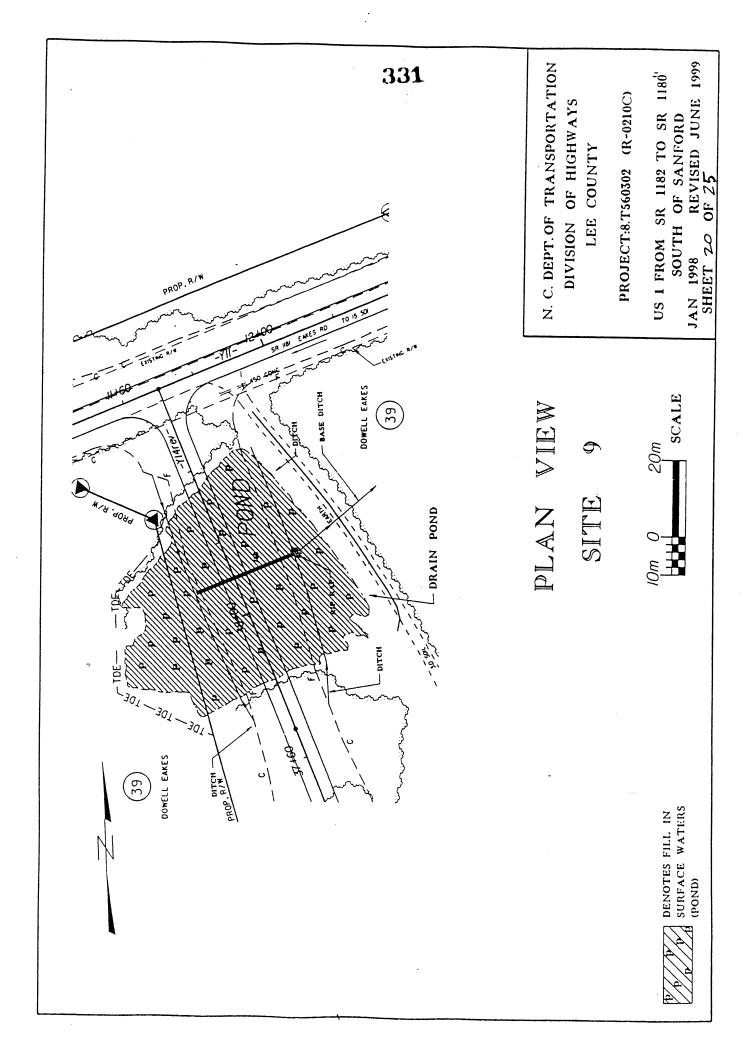
DENOTES EXCAVATION IN WETLANDS

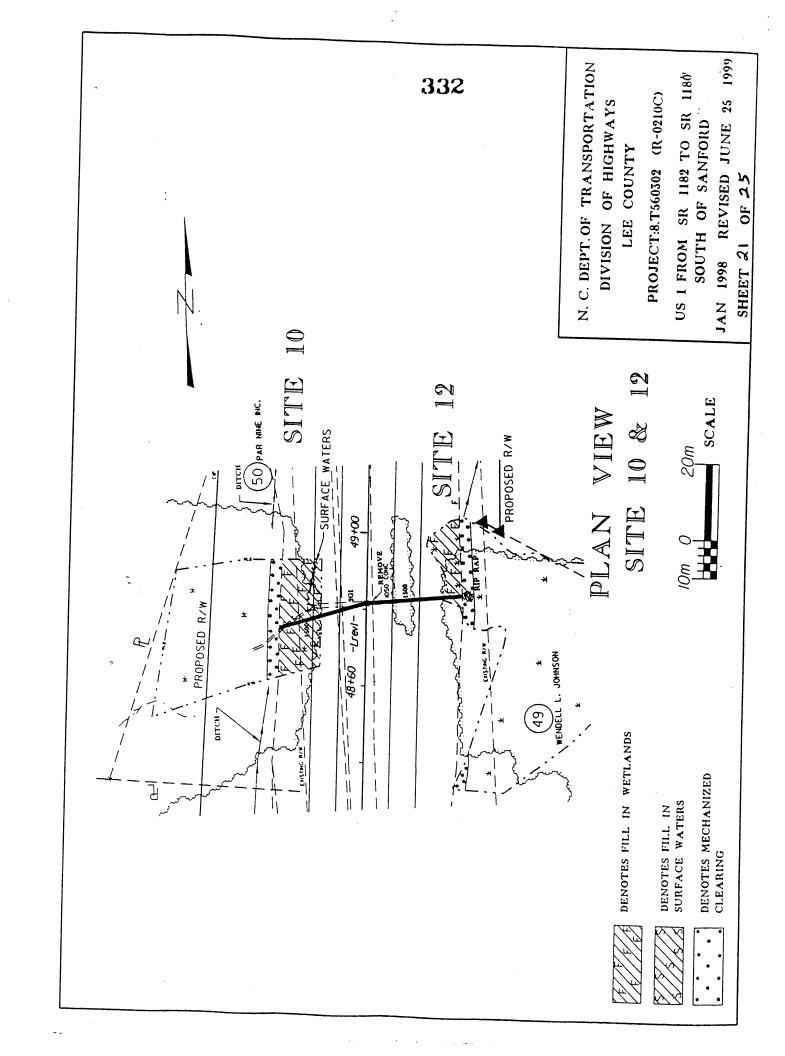
DENOTES FILL IN SURFACE WATERS

REVISED JUNE 1999 OF 25 SOUTH OF SANFORD JAN 1998









REVISED JUNE 25 1999 333 N. C. DEPT. OF TRANSPORTATION US 1 FROM SR 1182 TO SR 1180 PROJECT:8.T560302 (R-0210C) DIVISION OF HIGHWAYS SOUTH OF SANFORD LEE COUNTY JAN 1998 PLAN VIEW SITE 11 DENOTES FILL IN WETLANDS DENOTES MECHANIZED CLEARING DENOTES FILL IN SURFACE WATERS

Γ		Г	T	_			Г		Т	_	_	T	_	_	_	_	_	_	_	_	_	_	 		
				Enclosed	Channel	(m)			85	16	87	/0	00				12	14						000	302
		CTS		Relocated	Channel	(m)				137	162													200	693
		SURFACE WATER IMPACTS	Existing	Channel	Impacted	(m)			110	144	197	84		2	717		12	17						585	- }}
	10.4.00	JRFACE W			. In SW	(na)																			
		ה ה	Fill In CW	A 5 1 5	(Fond)	(119)			0.08						100	0.27								0.35	1
			Fill In SW	(Apption)	(ivatulai) (ha)	(119)		0	0.0	0.02	0.04	0.01		<0.01			\$0.01	20.01						0.08	
SUMMARY		Mochen	Clearing	(Method III)	(ha)	0.04	0.0	100	0.0	0.03	<0.01	0.01	0.02			5	0.01	0.00	10.0					0.14	
S	IMPACT		Excavation				0.02		0 11	5	0.14			0.01										0.28	
7	WETLAND			In Wetlands	(ha)																				
			Fill In	Wetlands	(ha)	0.14	0.68	0.19	0.33	0.97	0 40	00	0.30	0.00		0.03	0.02	0.01						2.83	
			Structure	Size			1050mm Pipe	1500mm Pipe		1050mm Pipe	1050mm Pine	20				1500mm Pipe		1500mm Pipe							
			Station		(From/To)	12+00 -Y13-	18+60 -LRev1-	20+70 -LRev1-	29+20 -LRev1- Lt.	31+00 -LRev1-	39+00 -LRev1-	41+20 -L Rev1-	45+40 -1 Bevr1	בוויפא וב	38+00 -Y14Kev-	48+70 -LRev1- Lt.	10+35 -Y13B- Rt.	48+90 -LRev1- Rt.						L9:	
			Site	S			2	3	4	2	9	7	α	,		10	11	12					TOTA	101ALS:	

N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS LEE COUNTY

PROJECT: 8.T560302 (R-0210C)

US 1 FROM SR 1182 TO SR 1180 SOUTH OF SANFORD JAN 1998 REVISED JUNE 25, 1999 SHEET 25

APPENDIX C

Little River On-site Restoration Plan

Little River On-Site Restoration Plan

Improvements and Widening to US 1 From North of Lakeview to South of Sanford TIP No. R-210



North Carolina Department of Transportation
Division of Highways
Project Development and Environmental Analysis Branch
Natural Systems Unit

February 2001

1.0 Introduction

The North Carolina Department of Transportation (NCDOT) proposes to construct a four-lane divided freeway tying into the existing US 1 four-lane facility south of Camp Easter Road (SR 1853)/ Aiken Road (SR 2175) in Moore County to Wild Life Road (SR 1180) in Lee County. As part of the project mitigation, a restoration effort will be undertaken at the current US 1 crossing of the Little River.

1.1 Wetland Resources

Wetlands were delineated by NCDOT consultants using the "Corps of Engineers Wetlands Delineation Manual" (1987). Mr. Jeff Richter, of the U.S. Army Corps of Engineers Wilmington office, verified the delineation on March 2, 1995.

The Little River and the associated wetlands within the floodplain are very high quality. Despite the construction of a 1308-foot bridge, the proposed project will impact 4.7 acres of these wetlands. A temporary bridge will be used to construct the bridge over the Little River and the wetlands.

1.2 Summary of Mitigation

Construction of the 1308-foot bridge over the Little River and floodplain coupled with the removal of the existing US 1 bridge and causeway will allow NCDOT to restore 6.4 acres of floodplain and wetlands. The 6.4 acres includes 4.3 acres of fill that currently makes up the existing causeway (areas 1a, 2a, 2b, 2c) and 2.1 acres of remnant fill (areas 1c, 1b, 3) that was likely deposited during construction of the existing road. Besides restoring this 6.4 acres back to its original elevation, the hydraulic connectivity of the active floodplain, which is currently blocked by the existing road and causeway, will be restored. In addition, 8.4 acres of adjacent, remnant wetland parcels are being included as a preservation component.

2.1 Site Description

There are many parcels making up the site. Each parcel, as well as some other areas, has been assigned a circled number and the acreage calculated as shown on Figure 1. Following is a description of each area:

- la Existing road bed on the west side of the bridge and extending back to the wetland boundary and proposed end bent
- 1b Filled area within DOT right-of-way that will be restored to existing floodplain elevation
- 1c Filled area beyond DOT right-of-way that will be restored to existing floodplain elevation

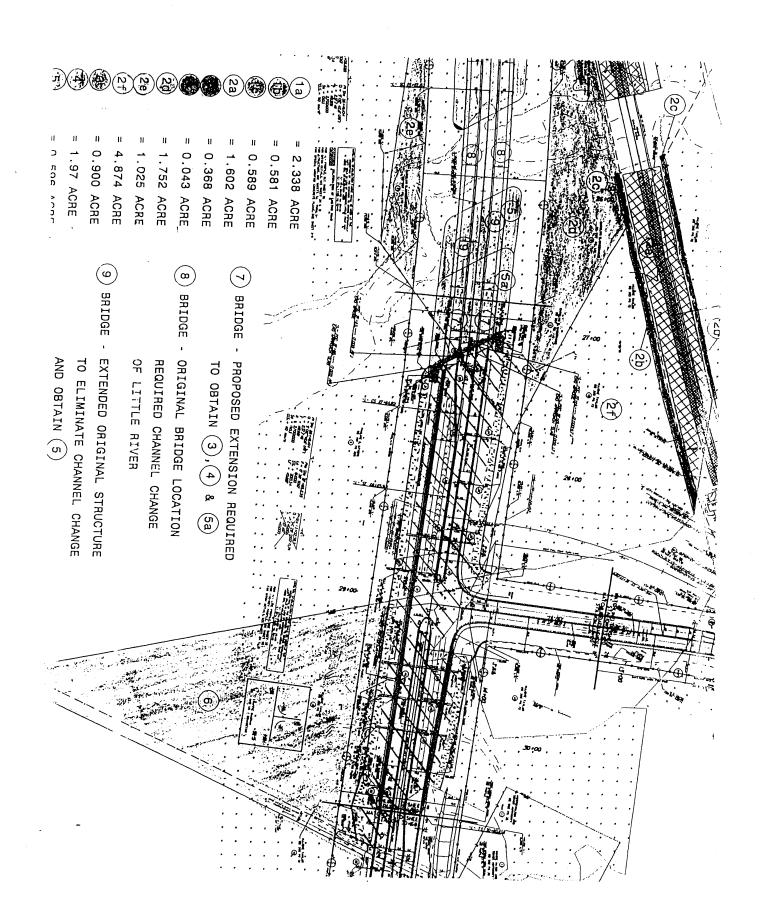
- 2a Existing road bed on the east side of the bridge and extending back to the wetland boundary on either side of the old road bed.
- 2b Small sliver of road fill that is beyond DOT right-of-way that will be restored to existing floodplain elevation
- 2c Small sliver of road fill that is beyond DOT right-of-way that will be restored to existing floodplain elevation
- 2d Remnant parcel of existing wetlands and a portion of the Little River that will be preserved
- 2e Remnant parcel of existing wetlands and a portion of the Little River that will be preserved
- 3 Filled area within DOT right-of-way that will be restored to existing floodplain elevation
- 4 Wetland impacts that will be avoided by construction of the elongated bridge
- 5 Wetland impacts that will be avoided by construction of the elongated bridge
- 5a Wetland impacts that will be avoided by construction of the elongated bridge
- 6 Remnant parcel of existing wetlands that will be preserved

The floodplain wetland adjacent to the Little River is characterized as bottomland hardwood according to the North Carolina Department of Environment, Health, and Natural Resources, Division of Environmental Management; Field Guide to North Carolina Wetlands (Report No. 96-01, 1996) but also has many trees typical of swamp forests. Dominant vegetation includes water tupelo (Nyssa aquatica), willow oak (Quercus phellos), sycamore (Platanus occidentalis), loblolly pine (Pinus taeda), red maple (Acer rubrum) and bald cypress (Taxodium distichium). The soils are mapped by the Soil Survey of Moore County, (NRCS, 1995) as the Wehadkee series, which is a hydric mineral soil that forms from recent alluvial sediment and is frequently

2.2 Methodology

The goal of the mitigation plan is to re-establish a wetland community as described in the Field Guide to North Carolina Wetlands. The 6.4 acres identified above and shown in Figure 1 will be graded down to an elevation of 74.5 feet, which is an average elevation from the surrounding floodplain wetland. The area will then be planted as detailed in the Wetland Reforestation Detail Sheet, which is attached. It is anticipated that this will restore 6.4 acres of high quality floodplain wetlands and restore much of the historical sheet flow of floodwaters across the flood plain.

Most of the grading work is expected to be performed in Spring 2004 since traffic will have to be maintained on the existing road until the new facility is completed. Therefore, the planting and monitoring will not take place until the 2005 growing season.



2.3 Monitoring

Hydrologic monitoring will occur throughout the growing season in the wetland area. Two groundwater gauges will be placed on either side of the river in the restored wetland. Hydrology will be monitored by using 40-inch groundwater gauges. Success will be based on saturation or inundation within 12 inches of the soil surface for a consecutive 12.5% of the growing season during years of normal rainfall.

Vegetation monitoring will be based on visual observation of plant establishment and recorded using photo reference points. Stem count, species composition, and plant health will be recorded annually at the end of the growing season. Success will be based on survival of 320 trees per acre in year three with a target survival of 260 trees per year in year five.

3.0 Mitigation Credit

The site is expected to generate 6.4 acres of restoration and 8.4 acres of preservation. All of the wetland preservation and 4.7 acres of the restoration are going to be used to compensate for the 4.7 acres of high quality impact that will result from construction of US 1 (TIP R-210) across this floodplain. The remaining 1.7 acres of restoration is anticipated to be used to compensate for impacts associated with the Sanford Bypass (R-2417).

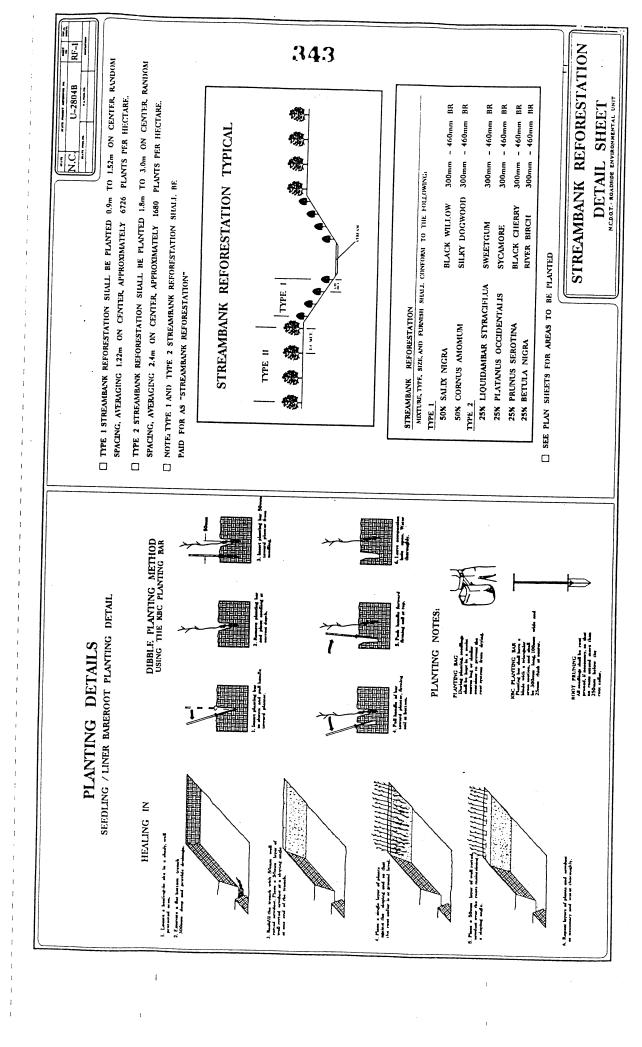
3.1 Final Dispensation of Property

NCDOT will retain ownership of the mitigation site until all monitoring requirements are fullfilled and an appropriate recipient is identified. If and when the deed is transferred, restrictions will be placed on the property to ensure protection in perpetuity.

341 12" - 18", SEEDLING BR WETLAND REFORESTATION TREE REFORESTATION SHALL BE PLANTED 6'TO 10'ON CENTER RANDOM SPACING. N.C.D.O.T. - ROADSIDE ENVIRONMENTAL UNIT DETAIL SHEET WETLAND REFORESTATION
MIXTURE, TYPE, SIZE, AND FURNISH SHALL CONFORM TO THE FOLLOWING: WETLAND REFORESTATION AVERAGING 8' ON CENTER, APPROXIMATELY 680 PLANTS PER ACRE. SWAMP CHESTNUT OAK SWAMP TUPELO BALD-CYPRESS WILLOW OAK SEE PLAN SHEETS FOR AREAS TO BE PLANTED TAXODIUM DISTICHUM QUERCUS MICHAUXII QUERCUS PHELLOS NYSSA BIFLORA DIBBLE PLANTING METHOD USING THE KBC PLANTING BAR SEEDLING / LINER BAREROOT PLANTING DETAIL 1: 1: PLANTING NOTES: A world partition of the control of PLANTING BAG Divid family and the last is a series that is a series that PLANTING DETAILS HEALING IN Lowers a heading-in site in a shady, well processed area. L. Report leyers of plants and sambout as pressure; and water thermobily. 2. Francis a find beages, presents .17° deep and presents decimals.

APPENDIX D

Miscellaneous Information



SECTION II - REQUEST FOR APPEAL or OBJECTION	NS TO AN INITIAL PROF	FERED PERMIT
2ECTION II - VEGOEST LOW WILL FUT OF OBJECTION	foraling the de	cision or your objections to an
REASONS FOR APPEAL OR OBJECTIONS: (Describe	your reasons for appearing the de-	n to clarify where' your reasons
initial proffered permit in clear concise statements. You may attach	additional information to this form	if to clarify where your reasons
or objections are addressed in the administrative record.)		
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	Cit desired the state of the st	Corns memorandum for the
ADDITIONAL INFORMATION: The appeal is limited to a review	of the administrative record, the	has determined is needed to
record of the appeal conference or meeting, and any supplemental	information that the review officer	always to the record. However
clarify the administrative record. Neither the appellant nor the Cor	ps may add new information of all	ministrative record
you may provide additional information to clarify the location of in		minstrative record.
POINT OF CONTACT FOR QUESTIONS OR INFOR	MATION:	The analysis of the second
If you have questions regarding this decision and/or the appeal	If you only have questions regard	ling the appeal process you may
process you may contact:	also contact:	
Mr. Richard K. Spencer, Regulatory Project Manager	Mr. Arthur Middleton,	Administrative Appeal
U.S. Army Corps of Engineers, Wilmington District	Review Officer	
Wilmington Regulatory Field Office	CESAD-ET-CO-R	South Atlantic Division
69 Darlington Avenue	U.S. Army Corps of Engineers, S	boum Anamic Division
Wilmington, North Carolina 228402	60 Forsyth Street, Room 9M15	
I -	Atlanta, Georgia 30303-8801	and any government
RIGHT OF ENTRY: Your signature below grants the right of entry	y to Corps of Engineers personnel	, and any government
consultants, to conduct investigations of the project site during the	course of the appeal process. You	i wili de provided a 13 day
notice of any site investigation, and will have the opportunity to pa	rticipate in all site investigations.	Talanhama assessina
	Date:	Telephone number:
Signature of appellant or agent.		
~-D		

DIVISION ENGINEER:

Commander
U.S. Army Engineer Division, South Atlantic
60 Forsyth Street, Room 9M15
Atlanta, Georgia 30303-3490

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Αŗ	oplicant: NCDOT/TIP R-210 (U.S. 1)	File Number: 1993-0-	Date: September 25, 2002
At	tached is:	See Section below	
	INITIAL PROFFERED PERMIT (Standard F	A	
 	PROFFERED PERMIT (Standard Permit or)	В	
 	PERMIT DENIAL	C	
	APPROVED JURISDICTIONAL DETERMI	D	
	PRELIMINARY JURISDICTIONAL DETER	E	

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at http://www.usace.army.mil/inet/functions/cw/cecwo/reg or Corps regulations at 33 CFR Part 331.

- A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.
- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.
- B: PROFFERED PERMIT: You may accept or appeal the permit
- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.
- C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.
- D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.
- ACCEPT: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date
 of this notice means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- APPEAL: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.
- E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.